City of Carlsbad Preserve

(CNLM No. S042)

Annual Report

October 1, 2009 – September 30, 2010

Prepared for:

City of Carlsbad

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I. INTRODUCTION

This report summarizes the management activities carried out at the City of Carlsbad's Preserve (Preserve) by the Center for Natural Lands Management (CNLM or Center) from October 1, 2009 to September 30, 2010. The reporting period reflects the second year of management of the Preserve and the due date of annual reports to the City by preserve managers. The tasks and objectives discussed below are those derived from the *City of Carlsbad Preserve Management Plan* (PMP)(CNLM/Tierra Data 2008) that was submitted to the City of Carlsbad after review and comment by the United States Fish and Wildlife Service (USFWS), and California Department of Fish and Game (CDFG).

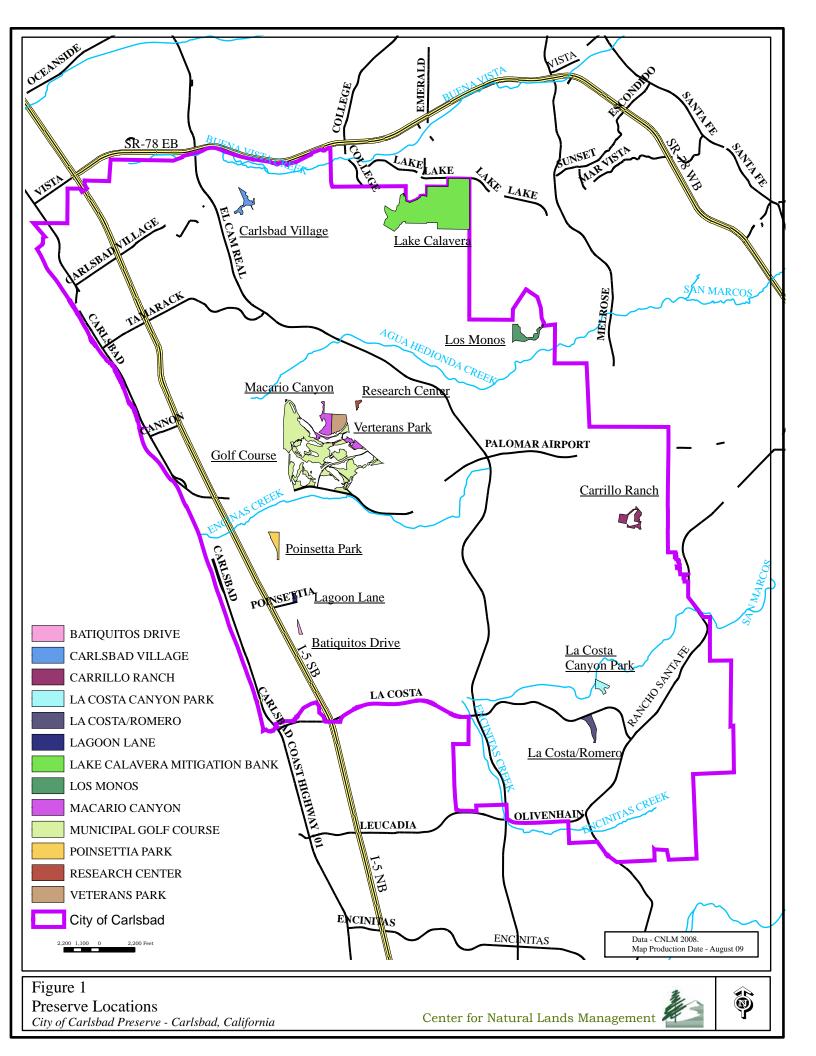
The Preserve represents City of Carlsbad (City) -owned properties that are a part of the City's Habitat Management Plan (HMP) and that therefore require management and monitoring pursuant to the HMP's Implementing Agreement (IA; City of Carlsbad 2004). The Center was hired to perform those obligations, commencing January 1, 2009, hence, this report represents the first full year of management by CNLM.

The Preserve (600.4 acres) is comprised of 13 properties scattered throughout Carlsbad (Figure 1). The most notable properties include the habitat areas within the Crossings Golf Course (198.2 acres) and Lake Calavera (256.1 acres). The remaining properties range from 2 to 30 acres. Vegetation communities include coastal sage scrub, chaparral, sycamore/oak woodland, willow woodland, native and non-native grassland, disturbed areas, and combinations of the aforementioned communities.

Management of the Preserve includes posting and maintaining signs and maintaining fences and gates (capital improvements), biological surveys, habitat maintenance, public services, and reporting. Each of these activities and their results for the management time period are summarized below and fully described within this report.

Summary of Activities

- Sensitive bird and avian community surveys were conducted at most properties
- Sensitive plant surveys were conducted on each property, except for Calavera Lake and the Crossings Golf Course, which were recently surveyed and not part of the Center's contract obligations.
- Surveys for the sensitive Blochman's dudleya (*Dudleya blochmannii*) were conducted at the Crossings Golf Course
- Vegetation maps were developed for each property, except Calavera Lake and the Crossings Golf Course, which were previously mapped.
- Habitat assessments were conducted on all properties
- Zero and moderate-tolerance nonnative plant species evaluations and assessments were commenced.



- Zero-tolerant and some moderate-tolerance nonnative invasive plant species were treated or removed
- Routine patrols were conducted to protect the preserve and provide information to visitors. CNLM spent considerable time and resources enforcing unwanted use, picking up trash, and educating the public at Lake Calavera
- Signs and kiosks were installed
- CNLM participated in volunteer events organized by the City and provided public outreach events or education
- CNLM staff met regularly with City staff and the City's Preserve Steward to discuss
 Preserve Management, as well as other issues pertaining to management and monitoring
 issues in Carlsbad

II. CAPITAL IMPROVEMENTS

The City is required under the PMP (Section 5) to install fences at Lake Calavera and other locations. The City received a grant from the Proposition A/TransNet Environmental Mitigation Program in June of 2009 which funds the installation of the required fencing at Lake Calavera. This fencing will likely be installed in the fall of 2010. Center staff met with City staff in 2009 and again in 2010 to discuss the other fencing proposed in the PMP. This includes fencing at La Costa Romeria, Macario and Carlsbad Village Drive and a gate at Veterans Park. After careful review from the City Planning Staff and Parks and Recreation Staff, it was decided (in 2009) that the fence proposed in the PMP for Poinsettia Park and Macario at the gate proposed for Veterans was not needed or desired. At Poinsettia Park, the Parks and Recreation Division asked that the Center not remove the nonnative acacia, myoporum, and Eucalytpus trees that line the main road (Paseo Del Norte). These trees provide a barrier to entry along most of Poinsetta Park's western boundary. North of Veterans, a chainlink gate was constructed at the terminus of Twain Street, which blocks access into the preserve areas. At Macario, the City had already installed some fencing in the proposed location, and others nearby, to protect habitat on that Property, so it was decided that the fencing was not needed. City staff also decided to fence only the southern boundary of the La Costa Romeria site (and not the northern side as proposed) and did not see the need for the fencing proposed at Carlsbad Village Drive.

CNLM staff assisted the City in installing small segments of fencing at Lake Calavera as part of their trail program. These segments were used to block access into unwanted areas of the preserve. CNLM staff maintained these fences during the course of the year.

III. BIOLOGICAL SURVEYS

The 2010 management year was the second year of biological surveys carried out by CNLM for all of these properties. However, the city had previously contracted with other firms to conduct

biological surveys at Lake Calavera (Merkel and Associates, 2005) and the Crossings Golf Course (Cotton/Beland/Associates, Inc. 2000). None of the other properties had been surveyed in the past. This year's biological monitoring included vegetation mapping, vegetation assessments, plant list generation, sensitive plant surveys, and sensitive bird surveys, including the coastal Californica gnatcatcher (CAGN, *Polioptila californica californica*), least Bell's vireo (LBV, *Vireo bellii pusillus*) and southwestern willow flycatcher (WIFL, *Empidonax traillii extimus*). In addition, all HMP "covered" species were noted and mapped during these surveys, including the Cooper's hawk (COHU, *Accipiter cooperii*), yellow-breasted chat (YBCH, *Icteria virens*), orange-throated whiptail (*Aspidoscelis hyperythras beldingi*) and others.

In addition to the aforementioned surveys, CNLM also conducted two surveys for short-leaf dudleya (*Dudleya blochmaniae*) at the Crossings Golf Course. This species had been observed adjacent to the golf course in previous surveys conducted in the area.

The primary goal of all monitoring activities is to develop a better understanding of the biological resources on the properties, and specifically, to identify sensitive species. This information is then used to guide future management and monitoring efforts.

The objectives for biological monitoring are as follows:

- Determine the distribution and abundance of state and federally listed bird species. Note other bird species during sensitive bird species surveys. Map (using GIS) all sensitive bird species and raptor species.
- Determine the distribution and abundance of sensitive plant species. Map (using GIS) these species.
- Map vegetation communities.
- Assess the habitat quality of selected vegetation communities.
- Note threats to the preserve areas (i.e. nonnative animals).

A. Methods

A.1. Birds

Surveys for CAGN were conducted following U.S. Fish and Wildlife (USFWS) protocols which consisted of three visits separated by at least seven days. Surveys for WIFL also followed USFWS protocol which consisted of three surveys, one each between May 15 and May 31, June 1 and June 21, and June 22 and July 17 (Table 1). LBV surveys consisted of four visits per site during the breeding season (March 15-August 31). Survey dates, times, and weather conditions are provided in Table 1. LBV, WIFL and CAGN surveys were conducted by Markus Spiegelberg (PRT- 787924-6). Other CNLM staff, Jessie Vinje and Patrick McConnell, conducted the sensitive plant surveys, vegetation mapping, and vegetation assessments. Each property, except for the Crossings Golf Course, was surveyed for CAGN. The Crossings Golf Course was surveyed by Dudek Environmental under a separate contract. The Crossings Golf Course and Lake Calavera were also surveyed for LBV and WIFL. Poinsettia Park and

Lagoon Lane were surveyed for LBV only. All bird species were noted during surveys and all sensitive species were mapped.

Table 1. Survey Dates, Times and Weather Conditions

Date	Property	Survey Time	Weather conditions	Type of Survey
March 2, 2010	La Costa Romeria	06:15-07:05	56°F, calm, partly cloudy	CAGN and avian community
March 2, 2010	La Costa Canyon Park	07:15-08:15	60°F, calm, partly cloudy	CAGN and avian community
March 2, 2010	Batiquitos Drive	08:25-09:00	60°F, calm, partly cloudy	CAGN and avian community
March 2, 2010	Los Monos	09:15-11:00	60 °F, 0-2 mph wind, cloudy	CAGN and avian community
March 3, 2010	Lake Calavera	07:00-11:30	47-60 °F, 0-5 mph wind, clear	CAGN and avian community
March 8, 2010	Veterans/Macario	06:30-08:30	58-60 °F, 0-2 mph wind, partly cloudy	CAGN and avian community
March 8, 2010	Carlsbad Village Drive	08:45-09:45	60 °F, 2-10 mph wind, partly cloudy	CAGN and avian community
March 8, 2010	Poinsettia Park	10:00-11:00	60-65°F, calm, partly cloudy	CAGN, avian community
March 11, 2010	Lake Calavera	06:30-11:00	50-65 °F, 0-5 mph wind, partly cloudy	CAGN and avian community
March 12, 2010	La Costa Romeria	06:15-07:05	58°F, calm, overcast	CAGN and avian community
March 12, 2010	La Costa Canyon Park	07:20-08:20	55°F, calm, overcast	CAGN, avian community
March 12, 2010	Los Monos	09:30-11:00	65°F, 0-2 mph wind, cloudy	CAGN, avian community
March 12, 2010	Batiquitos Drive	08:30-09:00	65°F, 0-2 mph wind, cloudy	CAGN, avian community
March 15, 2010	Veterans/Macario	07:00-10:00	48-70 °F, calm, clear	CAGN and avian community
March 15, 2010	Carlsbad Village Drive	10:15-11:00	70 °F, 2-3 mph wind, clear	CAGN and avian community
March 15, 2010	Poinsettia Park	11:15-12:00	70-75°F, calm, clear	CAGN and avian community
March 18, 2010	Lake Calavera	07:00-11:00	60-705 °F, calm, clear	CAGN and avian community
March 19, 2010	La Costa Canyon Park	06:45-07:45	58-62°F, calm, clear	CAGN, avian community
March 19, 2010	La Costa Romeria	07:50-08:30	65°F, calm, clear	CAGN and avian community
March 19, 2010	Los Monos	10:00-11:30	70°F, calm, partly cloudy	CAGN and avian community
March 19, 2010	Batiquitos Drive	8:45-09:30	70°F, calm, partly cloudy	CAGN and avian community
March 25, 2010	Veterans/Macario	07:00-9:30	60-65 °F, calm, overcast	CAGN and avian community
March 25, 2010	Carlsbad Village Drive	09:45-11:00	60 °F, 2-5 mph wind, partly cloudy	CAGN and avian community
April 9, 2010	Poinsettia Park	08:15-09:00	60-65°F, calm, clear	LBV, CAGN and avian community
April 9, 2010	Carrillo Ranch	09:20-10:00	70 °F, 5 mph wind, clear	CAGN, avian community
April 20, 2010	Crossings Golf Course	06:30-9:10	55 °F, calm, overcast	LBV and avian community
April 20, 2010	Lake Calavera	09:30-11:30	65 °F, 0-5 mph wind, overcast	LBV and avian community
April 26, 2010		08:30-09:45	65°F, calm, cloudy	CAGN, LBV, avian community
May 19, 2010	Crossings Golf Course	06:45-08:45	60-65°F, calm, clear	LBV, WIFL, avian community and rare plants
May 19, 2010	Lake Calavera	09:00-10:15	65°F, calm, partly cloudy	LBV, WIFL, avian community
June 2, 2010	Crossings Golf Course	07:00-09:15	65-70°F, breazy, overcast to clear	LBV, WIFL, avian community
June 2, 2010	Lake Calavera	09:30-11:30	70°F, calm, clear	LBV, WIFL, avian community
June 15, 2010	Lagoon Lane	10:45-11:45	65°F, calm, overcast	LBV, avian community
June 25, 2010	Crossings Golf Course	07:00-08:45	65°F, calm, overcast	LBV, WIFL, avian community
June 25, 2010	Lake Calavera	09:00-11:00	65-70°F, calm, overcast	LBV, WIFL, avian community

A2. Other Wildlife

No focused mammal, reptile, or amphibian or other zoological species surveys were conducted this fiscal year, but any observations were recorded and notable or sensitive species were also mapped and recorded.

A3. Plants

Sensitive plant species surveys were conducted in the fall, winter and spring of 2009-10. The entire area of each property were surveyed were possible. Most sensitive plant species were located using GPS and later transferred to GIS databases. All plant species observed were noted during surveys.

A4. Vegetation Maps

Vegetation maps were developed for all properties except Lake Calavera and the Golf Course. CNLM mapping followed the Draft Vegetation Communities of San Diego County (Oberbauer, et. al. 2008). For a detailed description of these communities, please refer to Oberbauer document. In general, CNLM used a ¼ acre as the minimum mapping unit for both upland and riparian communities; however, on many of the properties, we mapped even smaller than ¼ acre since there were communities that would not have been captured if a strict ¼ acre mapping unit were followed (i.e., open water, native grasslands).

A5. Vegetation Communities

One of the management directives (As per the section 4.3 of the PMP) is to collect baseline of most of the vegetation communities on each City property. The primary goals of this activity are to develop a baseline condition of habitat quality and to direct future management actions.

CNPS Relevé Assessments

General vegetation assessments were conducted using the California Native Plant Society Relevé Assessment protocol. Data collected using this protocol primarily provides information regarding the structure and species composition of each vegetation community, but also provides other relevant information that is needed to document basic long-term changes in the vegetation community. CNLM set up 20 Relevé Assessments on City properties (Table 1 and Figures 2-12). Each assessment was located in an area thought to be most representative of the entire vegetation community.

Table 2. Number and Location of Vegetation Community Assessments

Site	# of Relevé Assessments/ Vegetation Community	CSS Study Plot	# of Oak Woodland Assessments*
Carlsbad Village Drive	1 in CSS		
Lake Calavera	1 in RF, 2 in NG, 1 in CC, 1 in SOC	2	1
Veterans Park/Macario	2 in CSS, 1 in SMC, 1 in CSS/NG	2	
Carrillo Ranch			1
La Costa Canyon Park	1 in CSS		
La Costa Romeria	1 in CSS		
Crossings Golf Course	2 in SWS	2	
Poinsettia Park	1 in CSS, 1 in SWS		
Lagoon Lane	1 in RF		
Batiquitos Drive	1 in CSS		
Los Monos	1 in SMC/CSS		
Research Center	1 in SMC		

^{*}During the year, City staff, City Preserve Steward and CNLM staff met with local oak tree experts. It was decided that the Preserve Steward would develop an oak woodland assessment method. CNLM will use this method in the upcoming fiscal year to re-examine oak trees at Carrillo Ranch and Lake Calavera.

Oak Woodlands

Data was collected from two oak woodland assessment plots. The goal of the work is to provide more detailed information on oak trees (*Quercus agrifolia*) and their microhabitat as a baseline-type condition report. Each plot location was selected as a representative stand of oak trees at Lake Calavera and Carrillo Ranch. Data collected from Carrillo Ranch was within a stand of oaks on the western side of the property and included a census of all the oaks (Figure 8). The diameter at breast height (dbh) of each tree was measured and a list of plant species within the study area was recorded. DBH measurements provides information regarding the age of each tree and stand. After taking measurements from this plot, CNLM staff altered the methodology for data collected at Lake Calavera, so that the data collection could be more easily repeated in future years. At Lake Calavera, we developed a plot with a radius of 20 meters. We took at GPS coordinate of the center of the plot (Figure 2), and then collected trees from the nearest tree from 0 going clockwise. (As it turns out, CNLM staff later met with the City's Preserve Steward and Tom Coleman--an oak tree expert--during a site visit to determine if any oaks in Carlsbad had the Golden spotted oak borer beetle problems, at which time it was decided that in the future, a more comprehensive method employed by Mr. Coleman should be used.)

CNLM staff collected data at the Lake Calavera property on January 29, 2010 and at the Carrillo Ranch property on December 8, 2009. The global positioning coordinates for the Lake Calavera plot are UTM North 3670813.1 and UTM East 474633.6.

Coastal Sage Scrub Monitoring Plots

Although CNPS relevé assessments provide useful data for long-term preserve stewardship, more detail and information about the structure and composition of a vegetation community is needed to appropriately track and respond to change over time. The dominant vegetation community within City properties is coastal sage scrub (CSS). This is also the dominant vegetation community in all City of Carlsbad nature reserves. It also supports many of the sensitive flora and fauna protected by the City's HMP. Therefore, CNLM initiated a more thorough CSS monitoring program at CNLM-owned and managed properties in 2009, and used this same protocol at several City properties (See PMP for the protocol). CNLM permanently installed two plots at each of Lake Calavera, the Golf Course and Veterans/Macario Canyon (Figures 2, 5, and 9). These areas represent some of the largest contiguous nature stands of CSS and most representative (i.e., not restoration areas such as at the Crossings Golf Course) areas of these vegetation community on City properties. In addition, they support the CAGN, which is one of the conditions of locating a CSS plot to a given area. Data collected from these plots are being used in concert with other data collected on other CNLM-managed properties to evaluate long-term changes in the CSS community in Carlsbad.

B. Results

B.1. Birds

A total of 6 pair and 3 single male CAGN were found on City properties; at Carlsbad Village Drive (1 pair), Los Monos (2 males), Veterans Park (2 pair), Macario Canyon (1 pair), and Lake Calavera (2 pair and 1 male) (Figures 2-12). In addition to these CAGN observations during focused surveys, one juvenile CAGN was observed anecdotally on July 14 at the Batiquitos Drive site. In 2009, 10 pair and 1 male CAGN were observed on City properties.

A total of 1 pair and 3 single male LBV were observed at the Crossings Golf Course in 2010. This is the same number as in 2009, and each territory was essentially unchanged between years. No WIFL were observed at Calavera Lake or the Golf Course and no LBV were observed at Lake Calavera, Poinsettia Park, or Lagoon Lane.

Six YBCH territories were found at the Crossings Golf Course (4 territories) and Lake Calavera (2 territories). COHA were detected at Lake Calavera (1 juvenile and 1 adult), and Carlsbad Village Drive (1 individual). Two individual Southern California rufous-crowned sparrows (*Aimophila ruficeps canescens*) were detected at Los Monos. Northern Harriers (*Circus cyaneous*) were observed at Veterans Park/Macario and Lake Calavera. All these species locations, as well as other notable observations, are shown on Figures 2-12.

The complete inventory of bird species, by property, is provided in Appendix A. A total of 46 species other bird species were observed. Notable observations include California quail (*Callipepla californica*), downy woodpecker (*Dendrocopus pubescens turati*) and Northern flicker (*Colaptes auratus*).

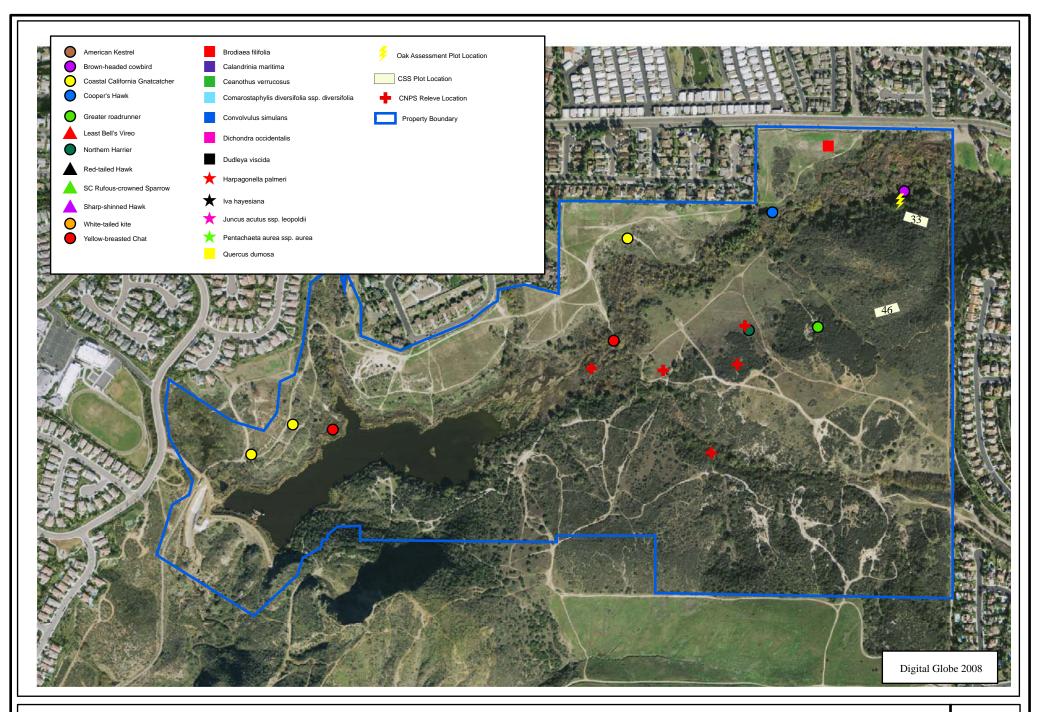


Figure 2 Sensitive Plants, Animals and Habitat Assessment Plot Locations (2010) *Lake Calavera*





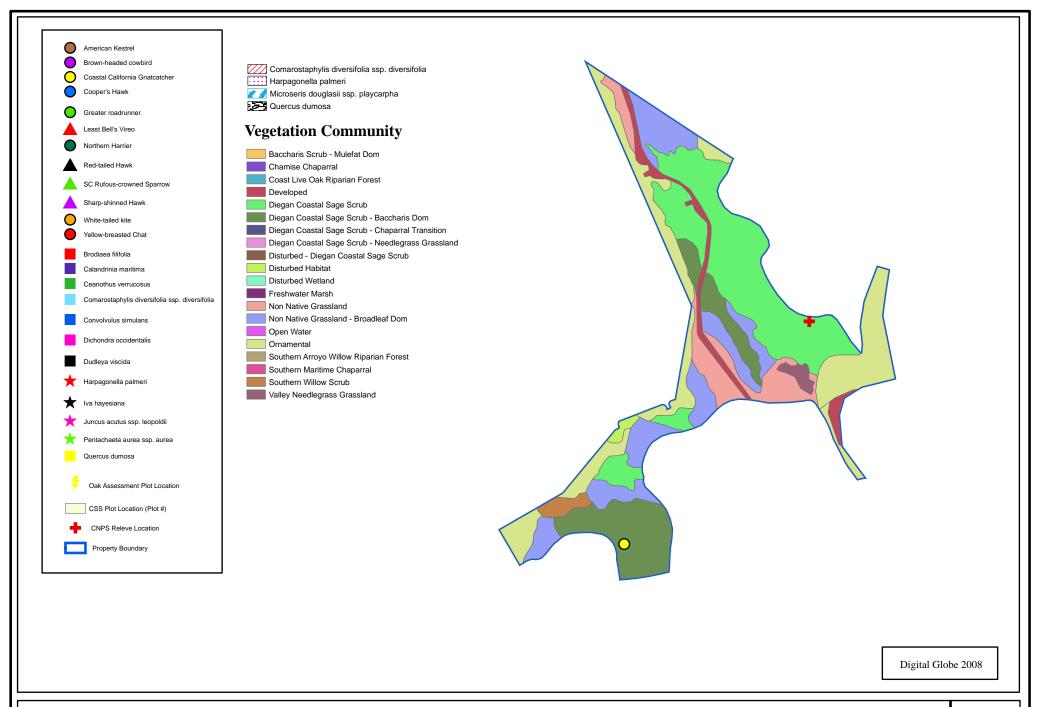


Figure 3 Sensitive Plants, Animals, Vegetation Communities and Habitat Assessment Plot Locations (2010)

120 60 0 120 Feet



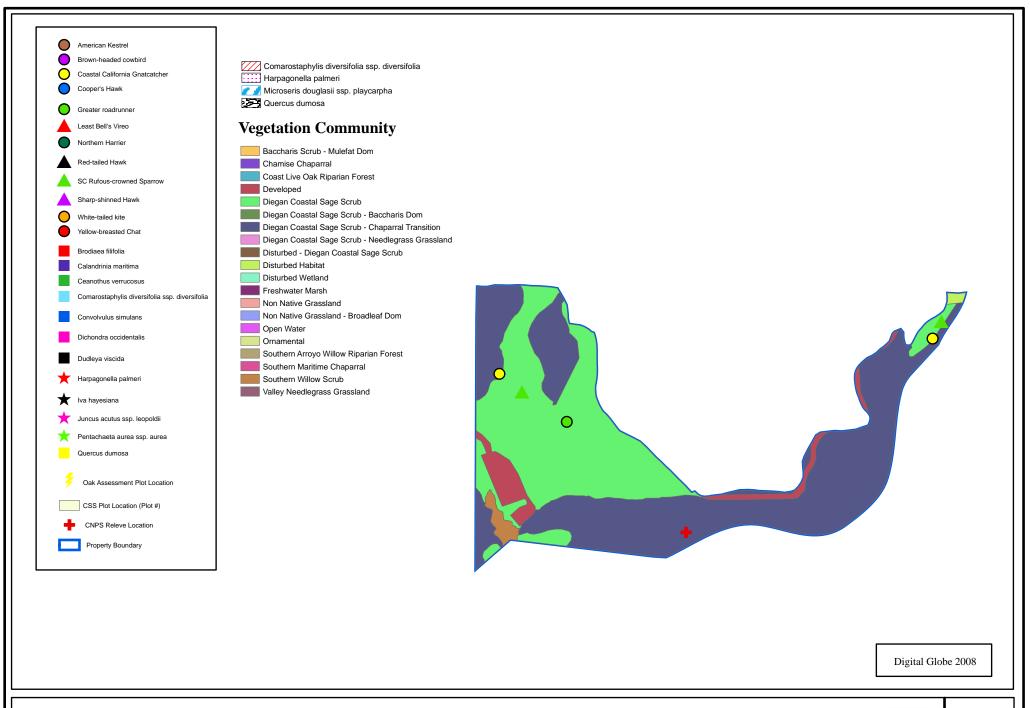


Figure 4 Sensitive Plants, Animals, Vegetation Communities and Habitat Assessment Plot Locations (2010)

140 70 0 140 Feet





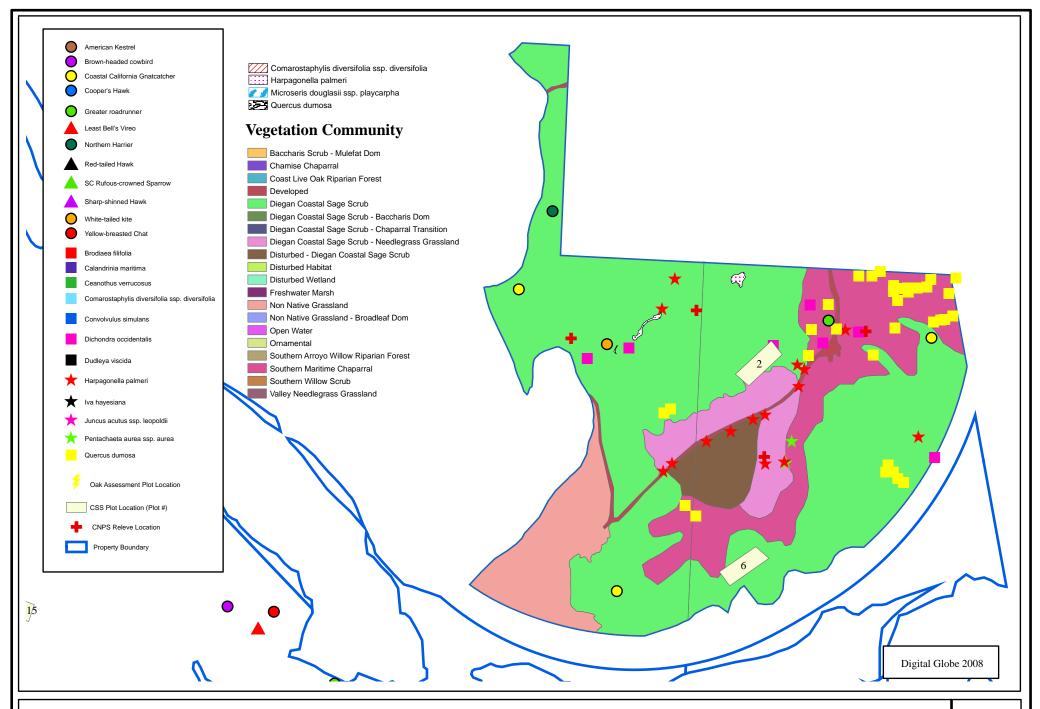


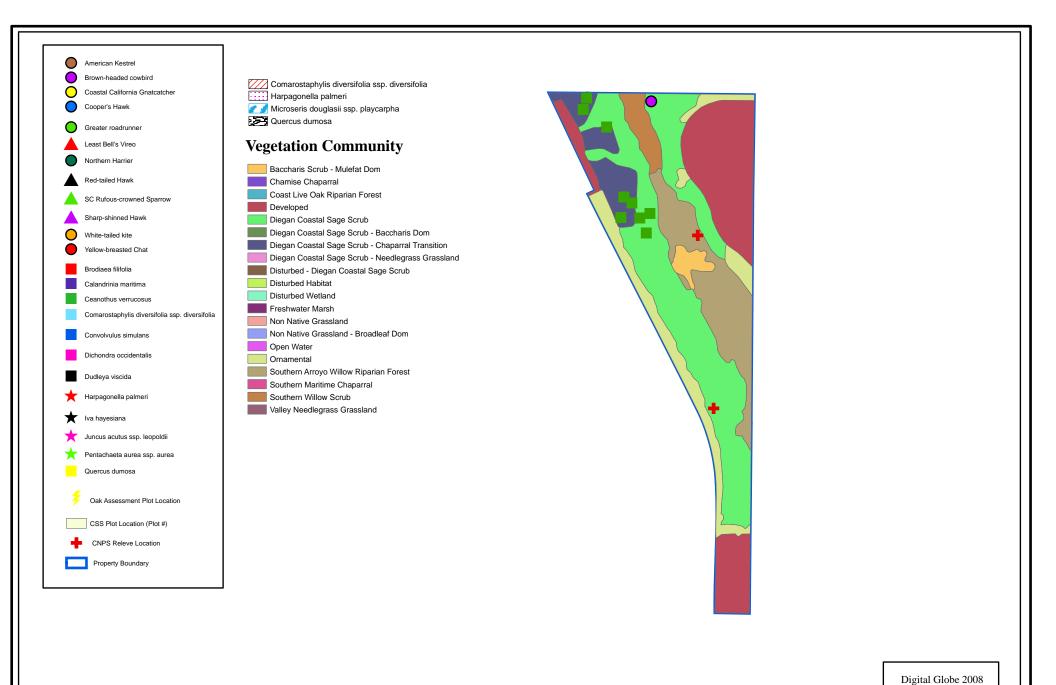
Figure 5
Sensitive Plants, Animals, Vegetation Communities and Habitat Assessment Plot Locations (2010)

Veterans Park/Macario Canyon

Center for







Digital Globe 2000

Figure 6 Sensitive Plants, Animals, Vegetation Communities and Habitat Assessment Plot Locations (2010)







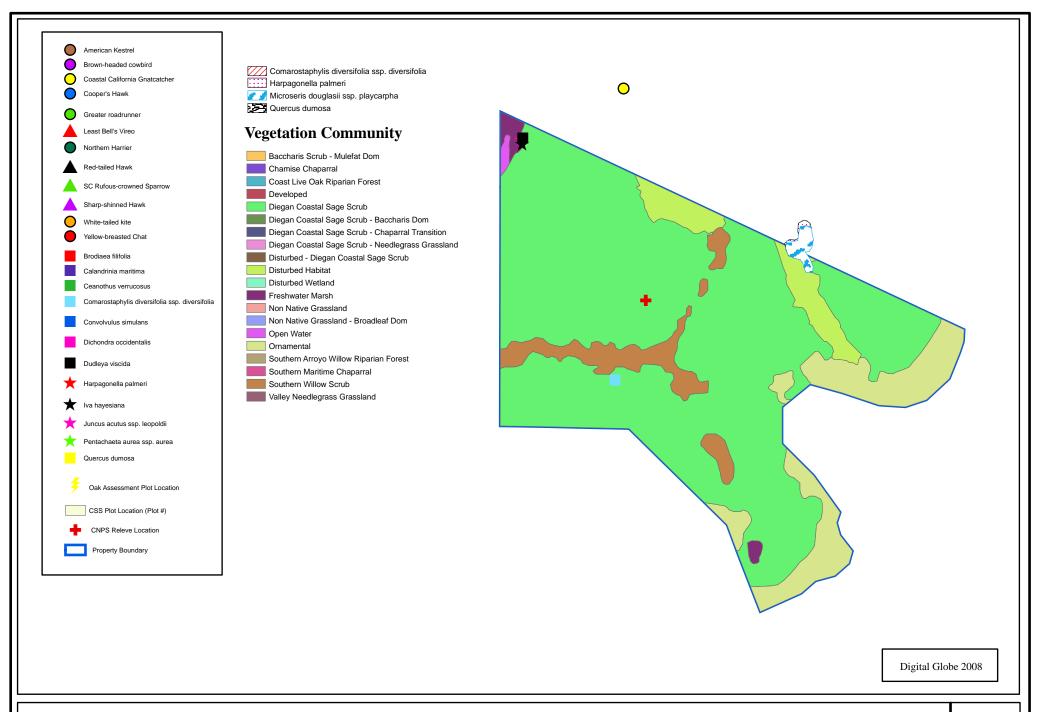


Figure 7 Sensitive Plants, Animals, Vegetation Communities and Habitat Assessment Plot Locations (2010)







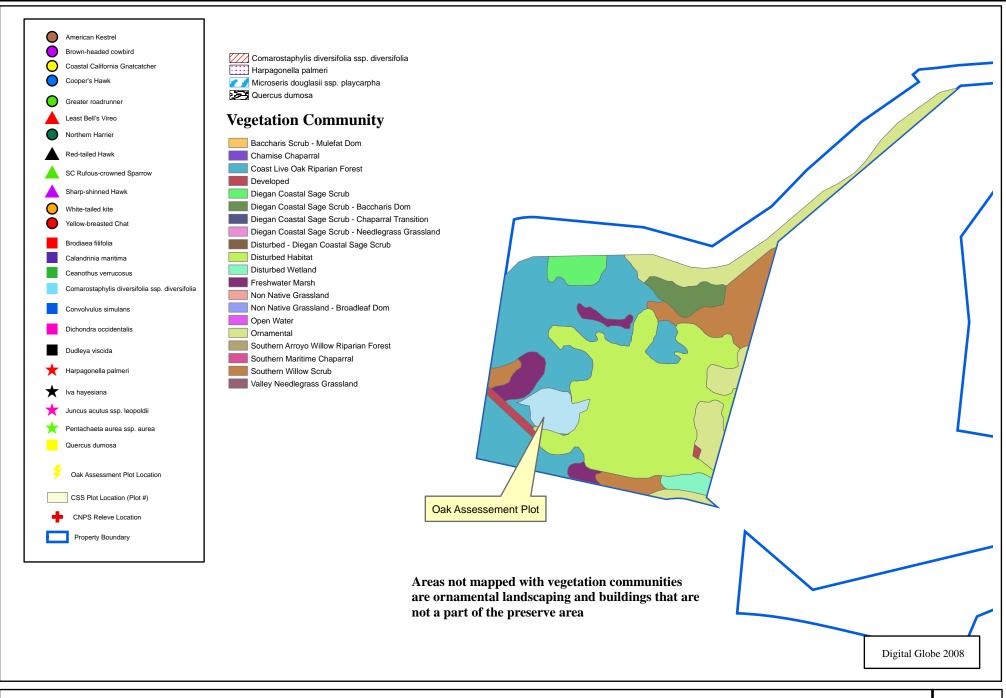


Figure 8 Sensitive Plants, Animals, Vegetation Communities and Habitat Assessment Plot Locations (2010)





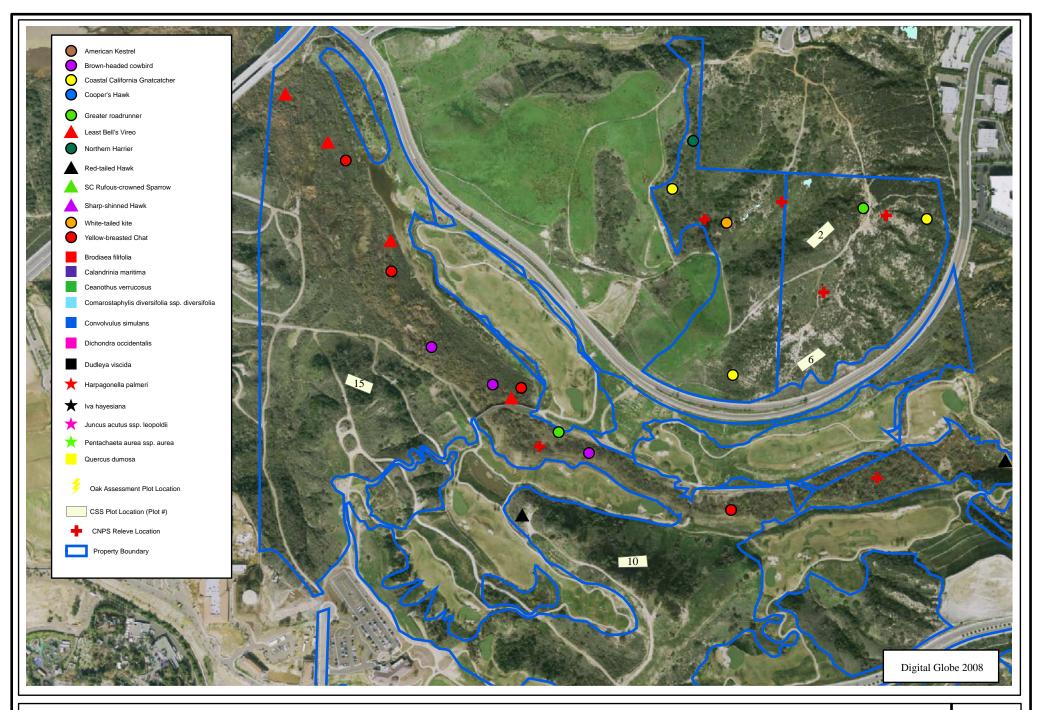
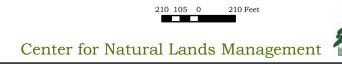


Figure 9
Sensitive Plants, Animals and Habitat Assessment Plot Locations (2010)
Crossings Golf Course





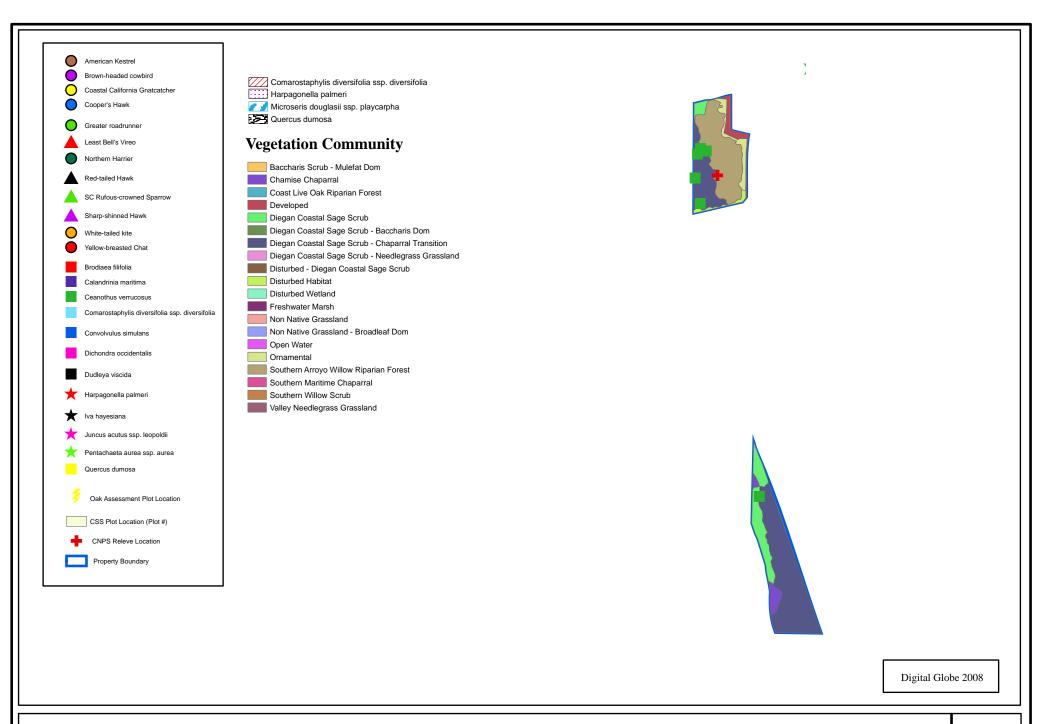


Figure 10 Sensitive Plants, Animals, Vegetation Communities and Habitat Assessment Plot Locations (2010)

160 80 0 160 Feet





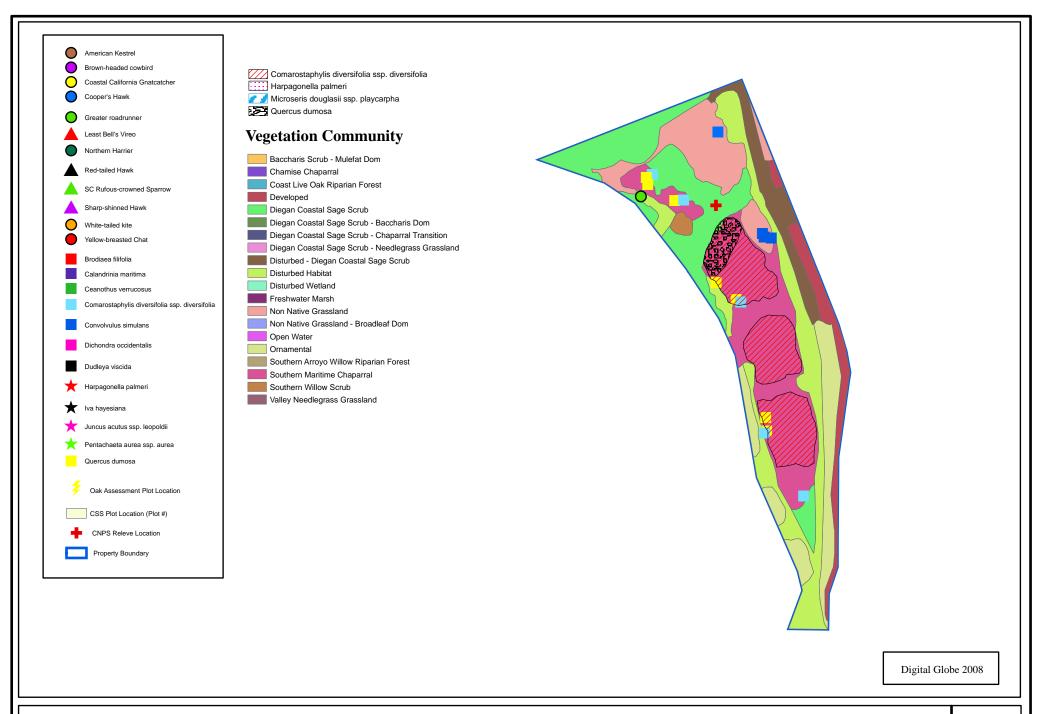


Figure 11 Sensitive Plants, Animals, Vegetation Communities and Habitat Assessment Plot Locations (2010)

125 62.5 0 125 Feet



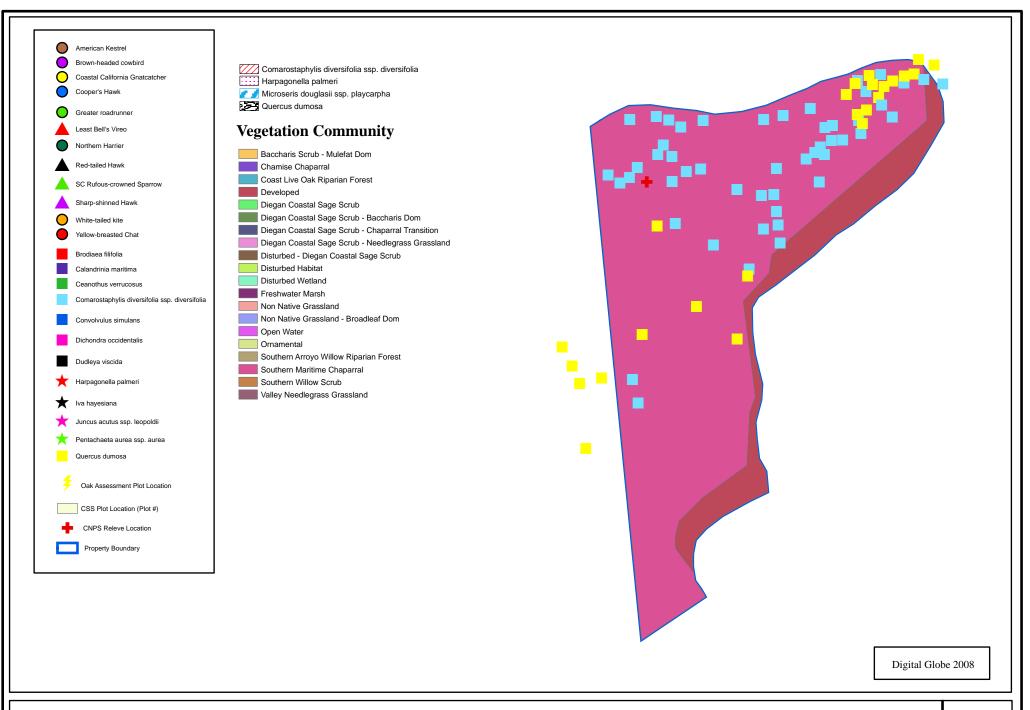


Figure 12 Sensitive Plants, Animals, Vegetation Communities and Habitat Assessment Plot Locations (2010)

40 20 0 40 Feet





B.2. Other Wildlife

A variety of wildlife species were observed during surveys (Appendix A). Notable observation include Sara's orangetip (*Anthocharis sara*), coyote (*Canis latrans*), long-tailed weasel (*Mustela frenata*) and gopher snake (*Pituophis melanoleucus annectens*).

The undesired brown-headed cowbird (*Molothrus ater*) was observed at Calavera Lake, Poinsetta Park, and at the Crossings Golf Course (see Figures 2, 6, and 9).

Nonnative bullfrogs were heard at Calavera Lake. This species is known to be a detriment to native wildlife species.

B.2. Plants

CNLM noted all plant species observed on each property (Appendix B) except the Crossing Golf Course and Lake Calavera, for which this data was collected in previous years. A total of 337 species were observed, of which 227 are native and 111 are nonnative.

B.3. Sensitive Plants

Thread-leaved brodiaea (Brodiaea filifolia)

The most notable incidental observation during the spring was the occurrence of three flowering thread-leaved brodiaea (a state and federally-listed endangered species) at Lake Calavera (Table 3 and Figure 2). This indicates that more individuals are likely to occur in the area, as only a small percentage flower each year. CNLM provided the City with GPS coordinates of the location of the individuals and this information was added to the City's GIS database. CNLM also notified the Parks and Recreation staff to ensure that they were aware of the location as City planned trails occur near these individuals.



Thread-leaved brodiaea observed at Lake Calavera

Table 3. Listed and Sensitive Plant Species Observed

Species		2010 Survey Results by Site										Carlsbad HMP and MHCP Covered Species	
	BD	CV	CR	LCCP	LCR	LL	LC	LM	MC/VP	CG	PP	RC	X=Carlsbad HMP; Y=MHCP
Thread-leaved brodiaea (Brodiaea filifolia)							3						X, Y
Nuttall's scrub oak (Quercus dumosa)					59				54			35	X, Y
California adolphia (Adolphia californica)					**	**		**	*				
Small-flowered Morning Glory (Convolvulus simulans)		25			23								
Sticky dudleya (Dudleya viscida)				50									Y
Wart-stemmed lilac (Ceanothus verrucosus)	1					16					27		Y
Summer-holly (Comarstaphylis diversifolia ssp. diversifolia)					85							125	Y

	BD	CV	CR	LCCP	LCR	LL	LC	LM	MC/VP	CG	PP	RC	
Western dichondra (Dichondra occidentalis)									Several patches	1 patch			
Palmer's grappling-hook (Harpagonella palmeri)				~500					2,296				
San Diego marsh elder (Iva hayesiana)				Several patches									Y
Southwestern spiny rush (Juncus acutus var. leopoldii)				17									
Ashy spike-moss (Selaginella cinerascens)										***			
Seaside Calandrinia (Calandrinia maritima)										60			
Golden-ray pentachaeta (Pentachaeta aurea)									5				
Short-leaf dudleya (Dudleya blochmaniae)										0			Y
Small-flowered Microseris (Microseris douglasii ssp. playcarpha)				1000									

^{*}Many individuals located within the coastal sage scrub; **Scattered individuals located within the coastal sage scrub; ***Scattered individuals located throughout property; BD=Batiquitos Drive; CV=Carlsbad Village; CR=Carrillo Ranch; LCCP=La Costa Canyon Park; LCR=La Costa Romeria; LL=Lagoon Lane; LC=Lake Calavera; LM=Los Monos; MC/VP=Marcario/Veterans Park; CG=Crossings Golf Course; PP=Poinsettia Park; RC=Research Center.

All other sensitive plant species

Fifteen sensitive plant species were observed and noted on City properties (Table 3 and Figures 2-12). In addition to the thread-leaved brodiaea, one other Carlsbad HMP covered species, the Nuttal's scrub oak (*Quercus dumosa*), was observed. Other species observed include four MHCP covered species, including large stands of Summer-holly (*Comarstaphylis diversifolia* ssp. *diversifolia*), and several notable species, such as Seaside Calandrinia (*Calandrinia maritima*). No short-leaf dudleya were observed at the Crossings Golf Course for a second year of surveys.

B.4. Vegetation Maps

Many vegetation communities were mapped during the year (see Figures 2-12). The dominate vegetation community is coastal sage scrub. Other communities include chamise chaparral, oak woodland and grassland.

B.5. CNPS Relevé Assessments, Oak Woodland and Coastal Sage Scrub Monitoring Plots

The CNPS Relevé assessments provided a valuable insight to the cover and composition of each plant community monitored (Appendix 3). In general, all sites have high quality habitat, defined a vegetation assemblage that is characteristic of the specific vegetation community (structure and composition) and a low percent cover of nonnative plant species.

Oak Woodland Assessments

Twenty six individual oak trees were found within the oak assessment plot at Lake Calavera. Trees ranged from 1.27 cm to 91.08 cm in dbh, with a mean of 20.38 cm dbh (stdev=23.15cm). Two trees showed signs of thinning canopy, otherwise, all trees appeared to be of good health. Dominant plant species within the plot are listed in Table 4.

Table 4. Dominant Pant Species within the Lake Calavera Pak Tree Assessment Plot

Species	
Quercus agrifolia	Malosma laurina
Brassica nigra	Erodium moschatum
Artemisia californica	Crassula connata
Heteromeles arbutifolia	Lotus scoparius
Lonicera subspicata	Carduus pycnocephalus
Mimulus aurentiacus	Amsinkia menziesii
Rhus integrifolia	Asterella spp. (Liverwort)
Carex triquetra	Hazardia squarrosa
Club moss	Eucrypta chrysanthemifolia
Claytonia spp.	Pholistoma racemosum
Cerastium glomeratum	Ranunculus hebecarpus
Marah macrocarpa	Nassella lepida
Salvia mellifera	Avena spp.
Sambucus mexicana	Ribes speciosum & Toxicodendron diversilobum

Forty-one individual oak trees were found within the oak assessment plot at Carrillo Ranch. DBH ranged from 0.80 cm to 33.7 with a mean of 7.91 cm dbh (s.d.=7.88). All trees were observed to be of good health (i.e., no canopy thinning or evidence of significant insect or pathogen infestation). Dominant plant species within the assessment area are listed in Table 5.

Table 5. Dominant Plant Species within the Carrillo Ranch Oak Tree Assessment Plot

Species	
Quercus agrifolia	Malosma laurina
Heteromeles arbutifolia	Schinus molle
Baccharis salicifolia	Rumex spp.
Leymus condensatus	Carduus pycnocephalus
Salix goodinggii	Bromus madritensis rubens
Foeniculum vulgare	Typha latifolia
Picris echioides	Apium graveolens
Brassica nigra	

Coastal Sage Scrub Monitoring Plots

Results of these CSS plots indicate that the coastal sage scrub located on City properties is generally of very good quality, defined as having the expected species assemblage and cover, with limited disturbance from nonnative exotic species (Figures 13 and 14, Table 6). Species richness data is summarized in Appendix 4.

This Area Intentionally Left Blank

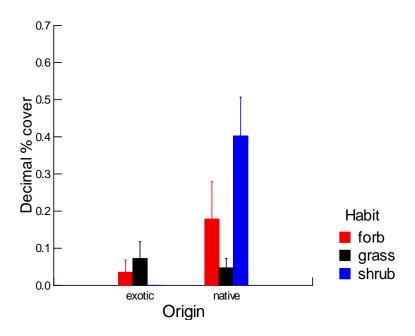


Figure 13. Average (+/- 1 s.e.) total percent cover for six coastal sage scrub plots in City of Carlsbad Open Space properties. Cover generated from point-intercept utilizing 50m transects at ½ m interval for 98 total points per transect.

Figure 14. Dominant exotic and native species within the CSS Plots.

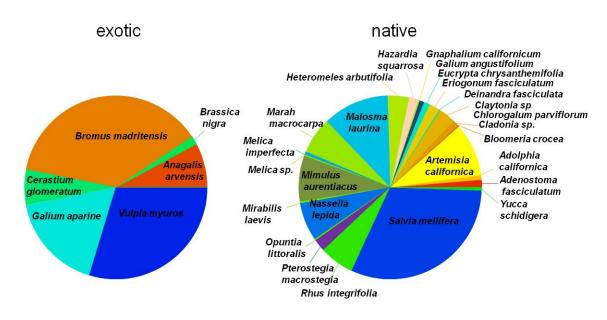


Table 6. Average percent cover of plant groups within the CSS plots.

	Exotic Forb	Exotic Grass	Native Forb	Native Grass	Native Shrub
Minimum Percent Cover	0	0	0	0	8.1
Maximum Percent Cover	18.2	24.2	56.6	12.1	65.7
Mean	3.5	7.2	17.8	4.7	40.2
Standard Deviation	7.2	9.9	22.2	5.5	23.0

IV. HABITAT MAINTENANCE

A. Erosion Control

Last year, CNLM staff observed an erosion problem at the Crossing Golf Course which resulted from the abandonment and lack of maintenance of a road many years ago. The road was on a steep slope. Over the years, water has eroded the slope and the soil ran off the side of the hill onto the road and trail below (Photograph 1). There was little vegetation on the slope to contain the soil. CNLM, with the help of HRS, Inc, had 500 gravel bags installed at various locations along the road and slope. In addition, several large water bars were graded into the slope to divert water at the top of the slope (Photographs 2-5). This activity occurred in March of 2010 and helped reduce additional erosion from the heavy rains which followed.

Additional erosion control included the cleaning the browditch that runs almost the entire length of the canyon at the La Costa Romeria site (Photograph 6). The ditch had become almost completely full of debris and was not functioning. We also installed about 10 chevrons of gravel bags on each side of the ditch (Photograph 7). Timing of this project could not have been better as the heavy rains produced lots of runoff and could have caused quite a bit of unwanted erosion. Silt accumulated to the top of many of the chevrons, but minimal silt was lost or eroded downstream.

Lastly, following the olive tree removal at the Batiquitos Drive site, CNLM had a number of straw wattles installed and had the lower slopes hydroseeded for erosion control. These measures held up nicely in the heavy rain year of 2010, with little or no debris eroding onto the road below.



Photograph 1. Erosion in abandoned road at the Crossing Golf Course prior to erosion control measures being implemented.



Photograph 2. Erosion control gravel bags near top of old road at the Crossings Golf Course.



Photograph 3. Water bars and erosion control bags near top of slope near the Crossings Golf Course.



Photograph 4. Erosion control measures at the Crossings Golf Course.



Photograph 5. Erosion control measures at the bottom of the abandoned road at the Crossings Golf Course.



Photograph 6. Clean browditch (and dead ice plant) at La Costa Romeria.



Photograph 7. Gravel bag Chevron at La Costa Romeria.

B. Nonnative Plant Removal

The primary habitat maintenance activities for the first three years of management are two remove many nonnative tree species, such as Olive (*Olea europaea*) and Eucalyptus (*Eucalyptus* spp.), as well as pampas grass (*Cortaderia* spp.), tamarisk (*Tamarix* spp.), and palm trees (*Phoenix canariensis*) from a number of the City's properties (see Chapter 5 of the PMP for complete list by each property). However, removing tree species requires that these activities occur outside the breeding season of the CAGN and other sensitive species. Therefore, many of these activities occurred in the fall of 2009 and early winter of 2010.

The following is a list of species that were treated or removed from October 1, 2009 to September 30, 2010 (see photographs 8-14):

About 25 castor bean (*Ricinis communis*), 3,620 fennel (*Foeniculum vulgare*), 190 Artichoke thistle (*Cynara cardunculus*), 11 tamarisk, 30 pampas, 6 Spanish bayonet (*Yucca* spp.), 5 acacia trees (*Acacia* spp.), 2 olives, 10 Red Natal grass (*Melinus repens*), 9 tree tobacco (*Nicotiana glauca*), 1 Brazilian-pepper (*Schinus terebinthifolius*), 1 silk oak (*Grevillea robusta*), 1 juniper (*Juniperus* spp.), and various other species at Lake Calavera were treated with herbicide. Seed/stalks from about 500 Sahara mustard (*Brassica tournefortii*) individuals were bagged and carted off-site.

- About 1.3 acres of fennel and an additional 790 fennel clumps, 21 Pampas, and 10 tree tobacco were treated at Carlsbad Village Drive.
- About 10 fennel, 120 tree tobacco, and about 48 olive trees, which re-sprouted from last year's removal efforts were retreated at Batiquitos Drive.
- About 10 pampas grass were treated at Los Monos.
- About 1.5 acres of fennel and an additional 1,200 fennel clumps, 1.8 acres of ice plant (*Carpobrotus* spp.), 6 castor bean, 16 tamarisk, 51 pampas, 9 Spanish bayonet, 13 acacia, 80 tree tobacco, 3 palms, 2 myoporum (*Myoporum laetum*), 2 African lily (*Agapanthus* spp.), 2 fountain grass (*Pennisetum setaceum*), and roughly 1,000 black mustard (*Brassica nigra*) were treated at the Crossings Golf Course. Approximately 5 acres of black mustard were also treated.
- About 20 Eucalytpus trees were stumped sprayed at Veterans Park, and about 25 Eucalyptus and acacia trees were removed at Carlsbad Village Drive
- About 130 fennel and 14 tree tobacco were treated at Veterans Park as well as a few pampas along Faraday Avenue.
- Scattered ice plant and about 140 fennel clumps were treated at La Costa/Romeria
- About 40 African corn flag (*Chasmanthe floribunda*) were treated at La Costa Canyon Park.
- About 240 calla lily (*Zantedeschia aethiopica*), 4 pampas, and 1 castor bean were treated at Poinsettia Park. Additionally, 4 Eucalyptus trees were drilled and filled with herbicide and 10 acacia trees were removed and about 10 were trimmed back.
- About ½ acre of acacia was removed at La Costa Romeria street (Photographs 8 and 9).
- About 5 acres of black mustard (*Brassica nigra*) were mowed at the Crossings Golf Course.
- 10 large pepper trees, two clumps of arundo, about 1/10 of an acre of ice plant, 5 palms and various other species were treated or removed from the Carrillo Ranch site.



Photograph 8. Acacia at La Costa Romeria prior to removal.



Photograph 9. Area where acacia was removed at La Costa Romeria.



Photograph 10. Olive trees at Batiquitos Drive prior to removal.



Photograph 11. Olive tree stumps and erosion control at Batiquitos Drive.



Photograph 12. Acacia at Poinsettia Park prior to removal or trim back.



Photograph 13. Acacia removal area at Poinsettia park. Note that Eucalytpus on left side of picture was trimmed up too.



Photograph 14. Areas where pepper trees were removed at Carrillo Ranch.

C. Preserve Threats

The primary threats to the City's Preserve are all the unwanted and unallowed activities that occur at Lake Calavera, and invasive nonnative plant species (see Section V for additional information). CNLM Rangers spend about 12-16 hours per week at Lake Calavera. Rules for site use by the public were agreed upon by City staff in May of 2009 and signs were posted in June 2009, which has helped educated visitors. We have observed far fewer unwanted activities during the last year than in our first year of management. Although dirt bikers did create a few jumps, we were able to talk to them and most of the illegal jump creation ceased soon afterward. Damages to the property from such activities were far lower than the previous year. Ranger patrols have helped reduce many of unwanted activities that were observed last year. Activities such as air soft games, motorcycle riding, and the use of radio control planes and cars were either not observed or rarely observed. Fishing and swimming were still popular in the Lake, but far less than last year for the latter use. CNLM staff removed the main rope swing from an oak tree on the southern shoreline which has helped reduce swimming activity. The most significant issue was the harassment of users by a knife wielding individual (only one day was reported). The police and CNLM rangers tried to find this individual, but were unsuccessful. Mountain bikers have been respectful of the new trails and have reduced their damages compared to previous years. Minimal unwanted trail creation was observed.

For the most part, no major unwanted activities were observed on the other properties. In mid spring, an individual drove a 4x4 truck onto the La Costa Romeria site and got stuck in the mud

(Photograph 15). The Police cited the individual and he was forced to remove his vehicle. There were no major damages to the property as a result of this event.



Photograph 15. Truck stuck at La Costa Romeria. The driver was cited for trespass.

V. PUBLIC SERVICE

CNLM public service activities during this fiscal year included patrolling, public outreach projects, and public education.

A. Patrolling and Enforcement

Primary patrolling activities occurred at Lake Calavera, as discussed in the previous "threats" section of this report. The Lake Calavera area has been used for many years for recreational purposes and since it lacked any formal trail or rule system in the past, these activities were never kept in check. As a result, the Lake property has had many unwanted trails and habitat damage throughout it. CNLM patrols and signs have "gotten the word out" that these unwanted activities will no longer be tolerated. Most users have been adapting to the new rules, and many unwanted activities have been reduced. The continued development of the formal trail system will help contain their use of the property and help protect the resources.

Routine patrols of the other Properties occurred every month or quarter, or as needed. Other than the aforementioned vehicle which drove onto the La Costa Romeria site, no major incidents were observed.

B. Public Outreach and Projects and Public Education

As part of outreach efforts for the Preserve and CNLM's other properties in Carlsbad, CNLM staff attended the HMP annual meeting and provided data and information about sensitive species and other Preserve-related issues. CNLM staff also attended several TransNet Environmental Mitigation Program meetings to provide input and listen in on current events. CNLM staff provided input to the meeting about their experiences in Carlsbad and other areas, and tried to illicit interest in getting more enforcement support for the State of California lands located adjacent to Lake Calavera. CNLM staff participated in the Earth Day, San Diego Mountain Biking Association Trial Work Day and National Public Lands Day held at Lake Calavera and hosted by the City's Parks and Recreation Division. CNLM assisted with the days projects (trash pickup, fence installation, trail work, and kiosk installation) and provided a brief summary of the preserve and its resources. CNLM staff also provided assistance for the Pacific Ridge High School trail and habitat restoration project held in the spring.

C. Trails Coordination

In late winter, the City started to develop its trail system and outreach program. The City installed 5 dog waste stations (including bags and trashcans), and 1 large kiosk.

CNLM staff were asked several times to attend meetings or visit Lake Calavera and discuss trail planning issues. We met with the City's trail planner and a representative of the San Diego Mountain Biking Association (SDMBA) to discuss trail projects and trail work days. We also met with City staff to discuss eagle projects on the property. CNLM staff also attended several of the quarterly scheduled trail volunteer meetings to discuss issues and build relationships with City staff and trail volunteers.

D. Signing

The Center installed over 40 signs along the perimeter or key access points of the properties in 2009. Many of these signs were vandalized and replaced as expected. Many of the newly installed signs have not been vandalized. The Center will finish signing Lake Calavera once the fences have been installed.

CNLM installed a total of five mini-kiosks in 2009 and added 4 additional kiosks at Lake Calavera in 2010 (Photograph 16). CNLM also repaired the old Kiosks installed by the Environmental Trust at the main trail heads of Calavera Mountain. A map of each site, a brief narrative of the purpose of the site, and a City- produced brochure entitled "Edge Effects" and/or California Native Plant Society "Don't Plant a Pest" brochure were posted within the kiosk. The narrative also provided City and CNLM contact information.



Photograph 16. Mini-kiosk installed at Lake Calavera.

VI. REPORTING

Reporting activities include report writing, all data analysis, geographic information system (GIS) data gathering, compilation, and analysis, meetings and regional coordination. Data that have been entered into ARCView GIS (9.1) includes preserve boundaries, sensitive plant and animal locations, and vegetation communities.

A. Annual Reports and Work Plans: This report represents the second annual report for the Preserve. CNLM will continue to follow the guidelines of the PMP for the upcoming fiscal year and provide the City of Carlsbad and wildlife agencies a summary of planned activities to occur between October, 2010 and the end of September, 2011.

B. Management Plan: The PMP for the Preserve was completed and approved in September of 2008 and will serve at the management plan for the first three years of management. This document provides background information of the Preserve and provides direction and time lines for future work. It also provides budget and financial information.

C. Budgets/Finances: The total expenditures for management from October 1, 2009 to September 30, 2010 were \$165,473.

VII. SUMMARY & DISCUSSION

Management of the City's Preserve this year was successful at protecting the properties from human encroachment, building baseline biological data, removing non-native plants, and developing a better understanding of the Preserve and its regional context. Preserve management in the next year will involve more biological surveys, habitat maintenance, site construction, and public outreach.

VIII. REFERENCES

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IX. Appendices

Appendix 1.

Animal Species Observed (X=2009; XX= 2009 & 2010; Y=2010)

Species	CL	CVD	LM	VP/MC	PP	LL	BD	LCR	LCCP	C-RANCH	CGC	RC
Birds:												
Acorn woodpecker		X										
Allen's hummingbird	Y				XX	Y		X				
American coot	XX											
American crow	X	Y		X	XX	Y	XX	XX	Y	X	X	
American goldfinch			X									
American kestrel	X										X	
American widgeon	X											
Anna's hummingbird	X	XX	X	XX	XX		XX	XX	XX	XX	XX	X
Ash-throated flycatcher	XX				X						X	
Bewick's wren	XX	XX	X	XX	XX		X	XX	XX	X	X	
Black-headed grosbeak	X										XX	
Black phoebe	XX		XX	XX	XX		X	X		X	X	X
Blue grosebeak						Y					Y	
Blue-gray gnatcatcher	XX										Y	
Brown-headed cowbird	X				XX	Y					XX	
Bufflehead	X											
Bullock's oriole	X											
Bushtit	XX	X	XX	XX	XX	X	X	XX	XX	X	XX	
California quail	XX	X	XX	XX	XX						XX	X
California thrasher	XX		XX	X				X	X		XX	X
California towhee	XX	XX	XX	XX	XX	Y	XX	XX	XX	Y	XX	X
Cassin's finch		X	X									
Cassin's kingbird	X								X		Y	
Cliff swallow	X										XX	
Coastal California gnatcatcher	XX	X	XX	XX	X				X		XX	
Common moorhen	X											
Common raven	XX	XX	X		X		X	X	XX		X	
Common yellow-throat	XX	X	X	XX	XX	X		XX		X	XX	
Cooper's hawk	XX	X		Y						X		
Costa's hummingbird	XX										X	
Double-crested cormorant	X											
Downy woodpecker	Y											
Great blue heron (fly-over)	X											
Great egret	X										XX	
Great-tailed grackle	XX							X				

Species	CL	CVD	LM	VP/MC	PP	LL	BD	LCR	LCCP	C-RANCH	CGC	RC
Greater roadrunner			X								X	
Hermit thrust	X											
Hooded oriole	X		X								X	X
House finch	XX	XX		XX	XX	X		Y	XX	X	X	X
House wren	X										X	
Hutton's vireo					X					X		
Killdeer	XX											
Least Bell's vireo											XX	
Lesser goldfinch	XX			XX	XX		X	Y	Y	X	X	
Lincoln's sparrow	X											
Mallard	XX									Y	X	
Mourning dove	XX	X	X	X	XX			XX	XX	X	X	X
Northern flicker			Y					Y				
Northern harrier	XX		X	XX								
Northern mockingbird	XX			X	XX	X	XX		X	Y	XX	X
Northern shoveler	X											
Nuttall's woodpecker	X		Y			X		Y	XX	X	X	
Orange-crowned warbler	XX					X	Y	Y			XX	
Pacific sloped flycatcher	XX										X	
Peacock										X		
Phainopepla	X											
Pied-billed grebe	X											
Poor-whil									Y			
Red-tailed hawk	XX		XX	Y							X	X
Red-winged blackbird	XX										XX	
Ruby-crowned kinglet	X											
Ruddy duck	X											
Rufous hummingbird		X	X									
Rufous-crowned sparrow	X		X									
Says phoebe	X			X					Y			X
Song sparrow	X	X		X	XX		Y	X	X	XX	XX	
Spotted towhee	XX	XX	XX	XX	XX	X	XX		XX	XX	X	X
Tree swallow	X											
Turkey vulture (fly-over)	X										X	
Violet-green swallow				X								
Western kingbird		X	Y				X	X	X		X	
Western meadowlark				X								

Species	CL	CVD	LM	VP/MC	PP	LL	BD	LCR	LCCP	C-RANCH	CGC	RC
Western scrub-jay	XX	X		Y			X	XX	XX	X	X	X
Western tanager										X		
White-crowned sparrow	XX	XX	XX		Y		X		Y		X	X
White-faced ibis (fly-over)	X											
White-tailed kite											X	
White-throated swift (fly-over)	X			Y								
Wilson's warbler	X									X		
Wrentit	XX	XX	XX	X	XX	XX	XX	XX	XX	XX	X	X
Yellow warbler											Y	
Yellow-rumped warbler	XX		X	Y		X	Y	Y	XX	Y	XX	
Yellow-breasted chat					X						XX	
Insects:												
Behr's metalmark				X								
Cabbage white	X			X						X		
Lorquin's admiral											X	
Mourning cloak				X						X		
Painted lady				X						X		
Pygmy blue				X				X				
Sara's orangetip	XX									X		
Scorpion				X								
Sphinx moth				X								
Western tiger swallowtail	X									X		
Mammals:												
Coyote	XX			XX	X			XX	X		X	
Desert cottontail	XX	X	X	XX	X		X	Y	XX	X	X	
Ground squirrel	XX	X		XX	X						X	
Raccoon (tracks)	XX							XY	X	X	X	
Opossum (tracks)	X							Y			X	
Woodrat	Y			XX	XX			XX	XX	X		
Long-tailed weasel								Y				
Reptiles and Amphibians:												
Belding's orange-throated whiptail			X									
Bullfrog	XX											
Gopher snake	Y											

Species	CL	CVD	LM	VP/MC	PP	LL	BD	LCR	LCCP	C-RANCH	CGC	RC
Pacific treefrog	XX			X					XX		X	
Rattlesnake (skin only)	Y			X								
Side-blotched lizard	X			X	XX						X	
Western fence lizard	XX		X	X	XX					X	X	
Western toad											X	

CL=Calavera Lake; CVD=Carlsbad Village Drive; LM=Los Monos; VP/MC=Veterans Park/Macario Canyon; PP=Poinsetta Park; LL=Lagoon Lane; BD=Batiquitos Drive; LCR=La Costa Romero; LCCP=La Costa Canyon Park; C-Ranch=Carrillo Ranch; CGC=Crossings Golf Course; RC=Research Center

Appendix 2. Plant species observed in 2010

Family and Latin Name	Common Name					Prop	erty				
		VP/MC	LCCP	PP	LCR	CR	RC	CV	BD	LL	LM
LYCOPHYTES											
SELAGINELLACEAE											
Selaginella cinerascens	MESA SPIKE-MOSS	X									X
Selaginella bigelovii	BIGELOW'S SPIKE-MOSS							X	X		
LEPTOSPORANGIATE FERNS											
DRYOPTERIDACEAE - Wood Fern Family											
Dryopteris arguta	COASTAL WOOD FERN						X				
POLYPODIACEAE - Polypody Family	COLDINE WOOD LERGY				 			1			<u> </u>
Polypodium californicum	CALIFORNIA POLYPODY							X			1
PTERIDACEAE — Brake Family	CHEN GRANT GETT GET							- 11			
Pentagramma triangularis ssp. viscosa	STICKY SILVERBACK FERN										X
Pentagramma triangularis	FERN	X		X					X		X
CONFIERS											
PINACEAE — Pine Family											
Pinus ssp.	PINE		X								
MONOCOMO											
MONOCOTS											
AGAVACEAE — Agave Family											
Yucca schidigera	MOHAVE YUCCA	X		X	X			X	X	X	X
ALLIACEAE — Onion Family											
Allium ssp.	ONION				X						
Allium haematochiton	REDSKIN ONION	X									
AMARYLLIDACEAE — Amaryllis Family											
*Amaryllis belladonna	BELLADONNA-LILY									X	
ARECACEAE (PALMAE) — Palm Family											
*Washingtonia robusta	MEXICAN FAN PALM		X			X					
ASPARAGACEAE - Asparagus Family											
*Asparagus asparagoides	FLORISTS SMILAX			X				X			
CYPERACEAE — Sedge Family											
Carex triquetra	TRIANGULAR-FRUIT SEDGE	X			X						
*Cyperus ssp.	UMBRELLA PLANT		X	X				X			
Cyperus eragrostis	TALL FLATSEDGE		X							X	X
*Cyperus involucratus	AFRICAN UMBRELLA PLANT		X							X	
Eleocharis aciculatus	NEEDLE SPIKE-RUSH		X								
Schoenoplectus americanus	OLNEY'S BULRUSH		X								1

Family and Latin Name	Common Name					Prop	erty				
		VDAG	I CCD	PP	T CD	CD	D.C.	CV	DD.		134
		VP/MC	LCCP	PP	LCR	CR	RC	CV	BD	LL	LM
Schoenoplectus californicus	CALIFORNIA BULRUSH		X			X					
Schoenoplectus pungens	COMMON THREESQUARE					X					
HYACINTHACEAE — Hyacinth Family											
Chlorogalum parviflorum	SOAP-PLANT/AMOLE	X	X		X						
Chlorogalum pomeridianum var. pomeridianum	WAVY-LEAF SOAP-PLANT/AMOLE								X		
RIDACEAE — Iris Family	WITT BEAT GOLD TELEVITATIONS										
*Chasmanthe floribunda	AFRICAN CORNFLAG		X			X					
Sisyrinchium bellum	BLUE-EYED-GRASS	X	X		X		X			\vdash	
IUNCACEAE — Rush Family	BEEL ETED GRASS	71	- 11		21		71			\vdash	
Juncus acutus ssp. leopoldii	SOUTHWESTERN SPINY RUSH		X							+	
Juncus acticus var. mexicanus	MEXICAN RUSH		Λ			X		1		\vdash	
Juncus bufonius	TOAD RUSH		 			Λ		}		\vdash	X
LILIACEAE — Lily Family	TOAD KUSII					-		-		₩	Λ
Calochortus weedii var. weedii	WEEDIC MADIDOCA LILV	v									
	WEED'S MARIPOSA LILY	X						1		+	<u> </u>
Calochortus splendens	SPLENDID MARIPOSA LILY	X								<u> </u>	-
MELANTHIACEAE — Bunch Flower or Can											
Zigadenus fremontii	FREMONT'S CAMAS	X	X								
POACEAE (GRAMINEAE) — Grass Family											
Achnatherum coronatum	GIANT STIPA	X									X
Agrostis pallens	SEASHORE BENTGRASS										X
Agrostis viridis	WATER BENT									X	
Arundo donax	GIANT REED					X					
Avena barbata	SLENDER WILD OAT	X			X	X		X	X	X	X
Avena fatua	WILD OAT							X			
Bothriochloa barbinodis	CANE BLUESTEM		X		X			X			
Brachypodium distachyon	PURPLE FALSEBROME	X	X		X	X		X			
Bromus diandrus	RIPGUT GRASS	X	X		X	X		X		X	X
Bromus hordeaceus	SOFT CHESS	X	X			X		X		X	X
Bromus madritensis ssp. rubens	FOXTAIL CHESS, RED BROME	X	X	X	X	X		X	X	X	X
Cortaderia selloana	SELLOA PAMPAS GRASS	X		X			X	X	X		X
Distichlis spicata	SALTGRASS					X		X			
*Ehrharta erecta	PANIC VELDT GRASS									X	
Gastridium ventricosum	NIT GRASS	X			X			X			X
*Hordeum spp.	BARLEY	X									
*Hordeum marinum	MEDITERANEAN BARLEY							X			
*Lamarckia aurea	GOLDEN-TOP							1.		\vdash	X
Leymus condensatus	GIANT WILD-RYE	X	X	X	X	X		1		\vdash	- 11
*Lolium multiflorum	ITALIAN RYEGRASS	71	X		X			X		\vdash	
v		v			^^	1		/A	Y	\vdash	X
		Λ	Λ						Λ	v	X
*		v						}			X
			V		v		v	}		+	X
Melica imperfecta [®] Melinis repens Muhlenbergia microsperma Nassella lepida	COAST RANGE MELIC NATAL GRASS LITTLE-SEED MUHLY FOOTHILL NEEDLEGRASS	X X X	X		X		X		X		X

Family and Latin Name	Common Name				•	Prop	erty				
		VP/MC	LCCP	PP	LCR	CR	RC	CV	BD	LL	LM
		V1/141C	Leci		LCK	CK	RC		DD	LL	12111
Nassella pulchra	PURPLE NEEDLEGRASS	X	X		X	X		X			X
*Paspalum dilatatum	DALLIS GRASS					X					
Paspalum distichum	COMMON KNOTGRASS		X								
*Pennisetum setaceum	AFRICAN FOUNTAIN GRASS									X	X
*Phalaris aquatica	HARDING GRASS					X					
*Phalaris canariensis	CANARY GRESS								X		
*Phalaris minor	LITTLE-SEED CANARY GRASS										X
*Piptatherum miliaceum	SMILO GRASS		X			X					
*Poa annua	ANNUAL BLUEGRASS	X									
*Polypogon monspeliensis	ANNUAL BEARD GRASS		X		X	X		X	X		X
*Schismus spp.	SCHISMUS	X			21	X		11			7.1
*Schismus barbatus	MEDITERANEAN SCHISMUS	21			1			X		1	X
Vulpia microstachys	FESCUE FESCUE		X		X				X		71
*Vulpia myuros var. myuros	RAT-TAIL FESCUE	X			X			X	X	X	X
Vulpia octoflora	SLENDER FESCUE	X			<i>A</i>			X	Λ	- 1	X
THEMIDACEAE — Brodiaea Family	SLENDER FESCUE	Λ						Λ			Λ
Bloomeria crocea var. crocea	COMMON GOLDENSTAR	X			X			X			
Dichelostemma capitatum ssp. capitatum	BLUE DICKS	X	X	X	X			X			X
Dicheiosiemma capitatum ssp. capitatum	BLUE DICKS	Λ	Λ	Λ	Λ			Λ			Λ
EUDICOTS											
ADOXACEAE — Adoxa Family											
Sambucus mexicana	BLUE ELDERBERRY	X	X	X	X	X		X	X	X	X
AIZOACEAE — Fig-Marigold Family	BECE EEDEKBERK I	21	71	71	21	21		- 11	71	- 1	21
*Carpobrotus chilensis	SEA-FIG					X					
*Carpobrotus edulis	HOTTENTOT-FIG				X	Λ			X		
*Mesembryanthemum crystallinum	CRYSTALLINE ICEPLANT	X			Λ				X		
AMARANTHACEAE - Amaranth Family	CRISTALLINE ICLI LAIVI	Λ							Λ		
Atriplex sp.	SALTBUSH							X			
*Atriplex semibiccata	AUSTRALIAN SALTBUSH							X			X
*Amaranthus albus	WHITE TUMBLEWEED	X	X	X	X	X		X			Λ
Chenopodium spp.	GOOSEFOOT	Λ	Λ	Λ	Λ	X		Λ			
*Chenopodium album	LAMB'S QUARTERS					Λ					X
*Chenopodium murale	NET-LEAF GOOSEFOOT								X		Λ
*Dysphania ambrosioides	MEXICAN TEA	X	X	X	X				Λ		
*Dyspnania ambrosioiaes *Salsola tragus	PRICKLY RUSSIAN-THISTLE, TUM	X	X	X	Λ			X			
	PACIFIC PICKLEWEED	Λ	Λ	Λ	X			Λ			
Sarcoconia pacifica	FACIFIC FICKLEWEED				Λ						
ANACARDIACEAE - Sumac or Cashew Family	LAUDEL CUMAC	37	37	37	37	37	37		37	37	37
Malosma laurina	LAUREL SUMAC	X	X	X	X	X	X	77	X	X	X
Rhus integrifolia	LEMONADEBERRY	X	X	X	X	X	X	X	X	X	X
*Schinus terebinthifolius	BRAZILIAN PEPPER TREE	**	X		X			X		X	**
Toxicodendron diversilobum	WESTERN POISON-OAK	X				X					X

Family and Latin Name	Common Name					Prop	erty				
		TID D F C	T CCD	777	T GD	C/D	D.C.	OT.	77		* * * *
	 	VP/MC	LCCP	PP	LCR	CR	RC	CV	BD	LL	LM
APIACEAE (UMBELLIFERAE) — Carrot Family											
Apiastrum angustifolium	MOCK-PARSLEY	X	X		X			X		 	
*Apium graveolens	COMMON CELERY	Λ	X		Λ	X		Λ			
*Conium maculatum	COMMON POISON HEMLOCK		Λ	X		X		X	X	X	
Daucus pusillus	RATTLESNAKE WEED	X	X	Λ	X	Λ		X	X	X	X
*Foeniculum vulgare	SWEET FENNEL	X	X	X	X	X		X	X	Λ	X
<u> </u>	SHARP TOOTH SANICLE	Λ	Λ	X	X	Λ		Λ	Λ	<u> </u>	Λ
Sanicula arguta	SHARP TOOTH SANICLE			Λ	Λ						
APOCYNACEAE — Dogbane Family	NA DROWA EA EA GLAWAGEED							37			
Asclepias fascicularis	NARROW-LEAF MILKWEED							X		<u> </u>	
*Vinca major	GREATER PERIWINKLE			X		X					
ARACEAE — Arum/Duckweed Family											
*Zantedeschia aethiopica	CALLA-LILY			X							
ASTERACEAE (COMPOSITAE) — Sunflower Fam											
Amblyopappus pusillus	PINEAPPLE WEED	X									
Ambrosia psilostachya	WESTERN RAGWEED	X							X		
Ancistrocarphus filagineus	WOOLLY FISHHOOKS			X							
Artemisia californica	COASTAL SAGEBRUSH	X	X	X	X	X		X	X	X	X
Artemisia douglasiana	DOUGLAS MUGWORT		X			X				X	
Baccharis pilularis	CHAPARRAL BROOM, COYOTE BR	X	X	X	X	X		X	X	X	X
Baccharis salicifolia	MULE-FAT, SEEP-WILLOW	X	X	X	X	X		X		X	X
Baccharis sarothroides	BROOM BACCHARIS				X						X
Brickellia californica	CALIFORNIA BRICKELLBUSH		X								X
*Carduus pycnocephalus	ITALIAN THISTLE		X	X		X		X			X
*Centaurea melitensis	TOCALOTE	X	X	X	X	X		X	X	X	X
Chaenactis artemisiifolia	WHITE PINCUSHION										X
Chaenactis glabriuscula	PINCUSHION	X		X							X
*Chrysanthemum coronarium	CROWN MARIGOLD		X					X		X	
Cirsium occidentale var. occidentale	COBWEBBY THISTLE	X							X	X	
Conyza canadensis	HORSEWEED	Х	X	X	X	X			X	X	X
Corethrogyne filaginifolia var. californica	CALIFORNIA SAND-ASTER	X			X						
*Cotula australis	AUSTRALIAN BRASS-BUTTONS			X					X		X
*Cotula coronopifolia	AFRICAN BRASS-BUTTONS		X			X		X		 	
Deinandra fasciculata	FASCICLED TARWEED	X	X	X	X	X		X		X	X
Encelia californica	CALIFORNIA ENCELIA	X	X	X	X	X		X	X	 	X
Encelia farinosa	BRITTLEBUSH				<u> </u>			X		 	X
Eriophyllum confertiflorum var. confertiflorum	LONG-STEM GOLDEN-YARROW	X	X	X	X	X		X	X	\vdash	X
Filago arizonica	ARIZONA FILAGO	X		23			 	X		\vdash	
*Filago gallica	NARROW-LEAF FILAGO	X	X	X	X	X	<u> </u>	X		 	
*Gazania spp.	GAZANIA	Λ.	/ A	Λ.	X	/ A		/1		 	
Gnaphalium californicum	CALIFORNIA EVERLASTING	X	X	X	X	X	X	X	X	\vdash	X
1 7	PINK EVERLASTING	Λ	Λ	Λ	X	Λ	Λ	Λ	Λ	├ ──	Λ
Gnaphalium ramosissiumum											

Family and Latin Name	Common Name					Prop	erty				
		VP/MC	LCCP	PP	LCR	CR	RC	CV	BD	LL	LM
		VIIIC	Leei		LCK	CK	KC	C.	ВВ	LL	12141
Grindelia camporum	RAYLESS GUMPLANT	X			X						
Hazardia squarrosa var. squarrosa	SAWTOOTH GOLDENBUS	Х	Х	X	X			X	X	X	X
*Hedypnois cretica	CRETE HEDYPNOIS	X	X		X	X		X		X	
Hesperevax sparsiflora var. sparsiflora	ERECT EVAX	X						X			
Heterotheca grandiflora	TELEGRAPH WEED	X			X					X	X
*Hypochaeris glabra	SMOOTH CAT'S EAR	X	X		X						X
Isocoma menziesii var. menziesii	SPREADING GOLDENBUSH	X	X		X			X			
Isocoma menziesii var. vernonioides	COASTAL GOLDENBUSH				X	X		X			X
Iva hayesiana	SAN DIEGO MARSH-ELDER		X								
*Lactuca serriola	PRICKLY LETTUCE		X		X						X
Lasthenia gracilis	COMMON GOLDFIELDS	X									
Mircoseris douglasii var. playcarpha	SMALL FLOWERED MICROSERIS		X								
Osmadenia tenella	OSMADENIA	X									
Pentachaeta aurea	GOLDEN-RAY PENTACHAETA	X									
*Picris echioides	BRISTLY OX-TONGUE	X	X		X	X	X	X			
Pluchea odorata	SALT MARSH FLEABANE		X		X	X					
Porophyllum gracile	ODORA										X
Pseudognaphalium beneolens	FRAGRANT EVERLASTING		X		X	X					
Pseudognaphalium biolettii	BICOLOR CUDWEED	X	X		X	X		X	X		X
Pseudognaphalium microcephalum	WHITE EVERLASTING										X
Senecio californicus	CALIFORNIA BUTTERWEED	X									
*Senecio linearifolius var. linearifolius	FIREWEED				X						
*Senecio vulgaris	COMMON GROUNDSEL						X	X			X
*Silybum marianum	MILK THISTLE							X		X	
*Sonchus asper ssp. asper	PRICKLY SOW-THISTLE	X	X		X	X	X	X	X		X
*Sonchus oleraceus	COMMON SOW-THISTLE	X	X		X					X	X
Stephanomeria sp.	WREATH-PLANT	X	X	X	X			X			X
Stylocline gnaphaloides	EVERLASTING NEST-STRAW	X	X		X						X
Xanthium strumarium	COCKLEBUR		X					X			X
Uropappus lindleyi	SILVER PUFFS				X						
Viguiera laciniata	SAN DIEGO SUNFLOWER										X
BETULACEAE — Birch Family											
Alnus rhombifolia	WHITE ALDER									X	
BORAGINACEAE — Borage Family											
Amsinckia menziesii var. intermedia	RANCHER'S FIDDLENECK	X		X					X		
Cryptantha clevelandii ssp. clevelandii	CLEVELAND'S CRYPTANTHA	X									
Criptantha clevelandii ssp. unknown	CLEVELAND'S CRYPTANTHA							X			
Cryptantha micromeris	MINUTE-FLOWER CRYPTANTHA						X				X
Cryptantha intermedia	NIEVITAS CRYPTANTHA	X	X	X	X		X				X
Cryptantha microstachys	TEJON CRYPTANTHA	X									
Cryptantha muricata	PRICKLY CRYPTANTHA										X

Family and Latin Name	Common Name					Prop	erty	1			
		VP/MC	LCCP	PP	LCR	CR	RC	CV	BD	LL	LM
		VI/MC	LCCI	**	LCK	CK	RC		DD	LL	Livi
*Echium candicans	PRIDE OF MADEIRA		X		X						
Harpagonella palmeri	PALMER'S GRAPPLING-HOOK	X	X								
Heliotropium curassavicum	SALT HELIOTROPE		X		X						
*Myosotis discolor	FORGET-ME-NOT								X		
Pectocarya linearis ssp ferrocula	SLENDER PECTOCARYA	X	X								
Pectocarya peninsularis	PENINSULAR PECTOCARYA										X
Plagiobothrys collinus var. gracilis	SAN DIEGO POPCORNFLOWER	X	X								X
BRASSICACEAE (CRUCIFERAE) — Mustard Fa	nmily										
*Brassica nigra	BLACK MUSTARD	X	X	X	X	X		X	X	X	X
*Brassica tournefortii	SAHARAN MUSTARD								X		X
Cardamine oligosperma	IDAHO BITTERCRESS								X		
*Coronopus didymus	LESSER WART-CRESS	X	X				X				
Descurania pinnata	TANSY MUSTARD	X									
*Hirschfeldia incana	SHORT-POD MUSTARD	X									X
Lepidium nitidum var. nitidum	SHINING PEPPERGRASS	X	X		X						
*Lobularia maritima	SWEET ALYSSUM		X	X							
*Raphanus sativus	WILD RADISH	X	X	X	X	X		X			X
Rorippa nasturtium-aquaticum	WATER-CRESS		X	X		X					
*Sisymbrium orientale	HARE'S-EAR CABBAGE			X							
CACTACEAE — Cactus Family											
Cylindropuntia prolifera	COAST CHOLLA	X						X	X		
*Opuntia ficus-indica	MISSION PRICKLY-PEAR, INDIAN-I	X		X					X		
Opuntia littoralis	COAST PRICKLY-PEAR	X	X	X	X	X		X	X	X	X
CAMPANULACEAE - Bellflower Family											
Triodanis biflora	SMALL VENUS LOOKING-GLASS	X							X		X
CAPPARACEAE — Caper Family											
Isomeris arborea	BLADDERPOD	X		X	X	X		X			
CAPRIFOLIACEAE - Honeysuckle Family											
Lonicera subspicata	HONEYSUCKLE			X	X	X					
CARYOPHYLLACEAE — Pink Family											
Cardionema ramosissima	TREAD LIGHTLY	X									
*Cerastium glomeratum	MOUSE-EAR CHICKWEED	X									X
Polycarpon depressum	CALIFORNIA POLYCARP	X			X			X			X
*Polycarpon tetraphyllum ssp. tetraphyllum	FOUR-LEAF ALLSEED					X	X		X		
*Silene gallica	COMMON CATCHFLY	X	X					X			X
Silene laciniata ssp. laciniata	SOUTHERN PINK				X						X
Spergularia salina	SALT MARSH SAND-SPURRY				X						
*Stellaria media	COMMON CHICKWEED	X									
CISTACEAE — Rock-Rose Family					1			1		1	
Helianthemum scoparium	PEAK RUSH-ROSE	X					X				X
CONVOLVULACEAE — Morning-Glory Family	-							1			

					Prop	or ty				
	VP/MC	LCCP	PP	LCR	CR	RC.	CV	BD	LL	LM
	7271120	2001		2011						
MORNING-GLORY	X	X	X	X			X	X		X
SMALL-FLOWERED MORNING GLC	ORY			X			X			
DODDER	X									
WESTERN DICHONDRA/PONYFOOT	X									
PYGMYWEED	X	X	X	X		X	X	X		X
LADIES' FINGERS		X								
LANCE-LEAF DUDLEYA	X	X						X		X
	X	X								X
									1	
MANROOT, WILD-CUCUMBER	X	X	X	X		X	X	X	X	X
EASTWOOD MANZANITA						X				
		X		X						
	Y	- 1	Y					Y	X	X
WINDSTOTY WE THE TENTON	71		21	71		71		71		71
WHITE-MARGIN SANDMAT	Y	Y							 	
			Y	Y	Y				 	
	71	21	21	71	21		Y	Y	 	X
			Y	Y			Λ	Λ	 	Λ
		Y					Y		Y	X
		Λ	Λ	Λ			Λ		- A	X
CASTOR BEAIN									 	Λ
ACACIA			v				v			
	v	v	Λ				Λ			
	Λ	Λ		-	+		v		 	<u> </u>
	v	v		v						
			v		v	v		v	v	X
		Λ	Λ	Λ	Λ	Λ	Λ		Λ	Λ
		V		v				V	 	
		X		X				X		
	Λ							 		v
				v			V		 	X
	37		37					 		
	X	*7	X	X	1		X	<u> </u>	+	<u> </u>
			37				V			V.
	77	X	X	X			X	<u> </u>	X	X
DEER PEA VETCH	X			ļ				<u> </u>	<u> </u>	
									<u> </u>	
·			X		X				<u> </u>	X
NUTTALL'S SCRUB OAK	X	X		X		X		<u> </u>	<u> </u>	
	SMALL-FLOWERED MORNING GLO DODDER WESTERN DICHONDRA/PONYFOOT PYGMYWEED	SMALL-FLOWERED MORNING GLORY DODDER X WESTERN DICHONDRA/PONYFOO' X PYGMYWEED LANCE-LEAF DUDLEYA CHALK DUDLEYA STICKY DUDLEYA MANROOT, WILD-CUCUMBER X EASTWOOD MANZANITA SUMMER-HOLLY MISSION MANZANITA X WHITE-MARGIN SANDMAT X SPOTTED SPURGE X SMALL-SEED SANDMAT CALIFORNIA CROTON PETTY SPURGE CASTOR BEAN ACACIA WHITE DWARF LOCOWEED LOTUS X BISHOP'S/STRIGOSE LOTUS X MINIATURE LUPINE X STINGING LUPINE ARROYO LUPINE CALIFORNIA BURCLOVER INDIAN SWEET CLOVER INDIAN SWEET CLOVER INDIAN SWEET CLOVER DEER PEA VETCH X COAST LIVE OAK, ENCINA X X COLAR LUPLO AK DEER PEA VETCH X COAST LIVE OAK, ENCINA X COAST LIVE OAK, ENCINA X X COAST LIVE OAK,	MORNING-GLORY SMALL-FLOWERED MORNING GLORY DODDER WESTERN DICHONDRA/PONYFOO' PYGMYWEED LADIES' FINGERS LANCE-LEAF DUDLEYA CHALK DUDLEYA STICKY DUDLEYA MANROOT, WILD-CUCUMBER X SUMMER-HOLLY MISSION MANZANITA SUMMER-HOLLY X WHITE-MARGIN SANDMAT CALIFORNIA CROTON PETTY SPURGE CASTOR BEAN ACACIA WHITE DWARF LOCOWEED LOTUS X MINIATURE LUPINE ARROYO LUPINE CALIFORNIA BURCLOVER X WHITE SWEET CLOVER X WHITE SWEET CLOVER X X X X X X X X X X X X X	MORNING-GLORY X X X X SMALL-FLOWERED MORNING GLORY DODDER X WESTERN DICHONDRA/PONYFOO' X PYGMYWEED X X X X LADIES' FINGERS X LANCE-LEAF DUDLEYA X X CHALK DUDLEYA X X STICKY DUDLEYA X X MANROOT, WILD-CUCUMBER X X X EASTWOOD MANZANITA X SUMMER-HOLLY X MISSION MANZANITA X X SPOTTED SPURGE X X X X SMALL-SEED SANDMAT X X X SMALL-SEED SANDMAT X X X CASTOR BEAN ACACIA X X WHITE DWARF LOCOWEED X X X DEERWEED X X X X DEERWEED X X X X STINGING LUPINE X X STINGING LUPINE X X X COLLAR LUPINE X X X STINGING SWEET CLOVER X X X WHITE SWEET CLOVER X X X STINGING SWEET CLOVER X X X WHITE SWEET CLOVER X X X WHITE SWEET CLOVER X X X DEER PEA VETCH X X DEER PEA VETCH X X COAST LIVE OAK, ENCINA X X X X DEER PEA VETCH X X DEER PEA VETCH X X X DEER PEA VETCH X X X X DEER PEA VETCH X X X X X DEER PEA VETCH X X X X X X DEER PEA VETCH X X X X X X X X X X X X X X X X X X X	MORNING-GLORY X X X X X X X SMALL-FLOWERED MORNING GLORY X WESTERN DICHONDRA/PONYFOO' X WESTERN DICHONDRA/PONYFOO' X LADIES FINGERS X X LADIES FINGERS X X X X X X X X X X X X X X X X X X X	MORNING-GLORY	MORNING-GLORY	MORNING-GLORY	MORNING-GLORY	MORNING-GLORY

Family and Latin Name	Common Name					Prop	erty				
		VP/MC	LCCP	PP	LCR	CR	RC	CV	BD	LL	LM
		VI/NIC	LCCI	11	LCK	CK	KC	CV	БЪ	LL	LIVI
Centaurium venustum	CANCHALAGUA	X	X		X						X
GERANIACEAE — Geranium Family											
*Erodium botrys	LONG-BEAK FILAREE/STORKSBILI	X			X			X			X
*Erodium cicutarium	RED-STEM FILAREE/STORKSBILL	X	X		X	X		X	X	X	X
*Erodium moschatum	WHITE-STEM FILAREE/STORKSBIL	L							X	X	
Geranium carolinianum	CAROLINA GERANIUM				X				X		
GROSSULARIACEAE — Gooseberry Family											
Ribes indecorum	WHITE-FLOWER CURRANT										X
Ribes speciosum	FUCHSIA-FLOWER GOOSEBERRY	X			X	X					
HYDROPHYLLACEAE — Waterleaf Family											
Eriodictyon crassifolium var. crassifolium	FELT-LEAF YERBA SANTA			X						X	
Eucrypta chrysanthemifolia var. chrysanthemifolia	COMMON EUCRYPTA	X	X	X	X				X	X	X
Nemophilla sp.	BLUE EYES	X								X	
Phacelia cicutaria var. hispida	CATERPILLAR PHACELIA	X									
Phacelia grandiflora	GIANT-FLOWER PHACELIA				X						
Pholistoma auritum	FIESTA FLOWER	X			- 11						
LAMIACEAE (LABIATAE) — Mint Family	TESTATEOWER	71	1								
*Marrubium vulgare	HOREHOUND	X									
Salvia apiana	WHITE SAGE	71						X			X
Salvia columbariae	CHIA	X					X	21			X
Salvia mellifera	BLACK SAGE	X	X	X	X	X	X	X	X	X	X
Scutellaria tuberosa	DANNY'S SKULLCAP	X	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ
Stachys ajugoides var. rigida	WHITE HEDGE-NETTLE	А			X			X			
LYTHRACEAE — Loosestrife Family	WHITE HEDGE WEITER				71			21			
*Lythrum hyssopifolia	GRASS POLY	X	X								
MALVACEAE — Mallow Family	GRASS I OL I	Λ	Λ								
Malacothamnus fasciculatus	CHAPARRAL BUSHMALLOW	X	X	X	X					X	X
*Malva parviflora	CHEESEWEED	71	21	21		X				21	- 21
Sidalcea malveflora ssp. sparsifolia	CHECKER-BLOOM					21		X			
MYRTACEAE — Myrtle Family	CHECKER BEOOM							21			
*Eucalyptus globulus	BLUE GUM	X	X							X	
NYCTAGINACEAE — Four O'clock Family	BEEE GOW	71	71							21	
Mirabilis laevis	COASTAL WISHBONE PLANT	X	X		X			X	X		X
OLEACEAE — Olive Family	CONSTRE WISHBORE LEARY	71	21		71			21	71		71
*Fraxinus uhdei	SHAMAL ASH					X					
*Olea europaea	OLIVE OLIVE					Λ			X		
ONAGRACEAE — Evening-Primrose Family	OLIVE								Λ		
Camissonia spp.	SUN CUP	X			X						
Camissonia spp. Camissonia bistorta	SUN CUP	X	X		^						X
Camissonia ignota	JURUPA HILLS SUN CUP	Λ	1						X	X	X
Epilobium canum	CALIFORNIA FUCHSIA, ZAUSCHNE	RIA	X		1	X			Λ	Λ	Λ
Epilobium ciliatum ssp. ciliatum	WILLOW HERB	ж	X		-	Λ				ł	

Family and Latin Name	Common Name		,		_	Prop	erty	1	1		
		VP/MC	LCCP	PP	LCR	CR	RC	CV	BD	LL	LM
Oenothera elata	GREAT MARSH EVENING-PRIMROS	SE.	X	X							
OROBANCHACEAE — Broom-Rape Family											
Castilleja exserta	PURPLE OWL'S CLOVER	X									
Castilleja foliolosa	WOOLLY INDIAN PAINTBRUSH	X									
Cordylanthus rigidus ssp. setigerus	DARK-TIP BIRD'S BEAK	X									X
OXALIDACEAE — Oxalis Family	DARK-III BIRD'S BLAK	Α									Λ
*Oxalis pes-caprae	BERMUDA-BUTTERCUP		X	X				X			
Oxalis albicans ssp. californica	CALIFORNIA WOOD-SORREL		Λ	Λ	-	+		X			
PAPAVERACEAE — Poppy Family	CALIFORNIA WOOD-SORREL							Λ			
	CALIFORNIA DODDY	N/	V					37	V		
Eschscholzia californica	CALIFORNIA POPPY	X	X					X	X		
PHRYMACEAE — Hopseed Family	140141714 74 04177		**								
Mimulus aurantiacus var. puniceus	MONKEY FLOWER	X	X	X	X	X	X	X	X	X	X
Mimulus pilosus	DOWNY MONKEYFLOWER										X
PITTOSPORACEAE — Pittosporum Family											
*Pittosporum undulatum	VICTORIA-BOX									X	
PLANTAGINACEAE — Plantain Family											
Antirrhinum kellogii	CLIMBING SNAPDRAGON	X					X				
Antirrhinum nuttallianum ssp. nuttallianum	NUTTALL'S SNAPDRAGON	X	X		X		X				X
Antirrhinum nuttallianum ssp. subsessile	BIG-GLAND NUTTALL'S SNAPDRA	GON							X		
Linaria canadensis	LARGE BLUE TOADFLAX	X									X
Plantago erecta	DOT-SEED PLANTAIN	X	X					X			X
*Plantago lanceolata	ENGLISH PLANTAIN		X								
*Plantago major	COMMON PLANTAIN		X								
PLATANACEAE — Plane Tree or Sycamore Fam	nily										
Platanus racemosa	WESTERN SYCAMORE			X		X					
PLUMBAGINACEAE — Leadwort Family											
Limonium ssp.	MARSH-ROSEMARY				X						
*Limonium perezii	PEREZ'S MARSH-ROSEMARY		X		X			X			X
POLEMONIACEAE — Phlox Family											
Eriastrum spp.	WOOLY STAR										X
Gilia angelensis	GRASSLAND GILIA	X									
Linanthus dianthiflorus	FARINOSE GROUND PINK	X									
Navarretia hamata	PINCUSHION	X			1	1		1			X
POLYGONACEAE — Buckwheat Family					1	1		1			21
Chorizanthe staticoides	TURKISH RUGGING				 	 	 	}	}	1	X
Chorizanthe staticotaes Chorizanthe fimbriata var. fimbriata	FRINGED SPINEFLOWER	X									X
Eriogonum fasciculatum var. fasciculatum	COAST CALIFORNIA BUCKWHEAT	X	X	X	X	X	X	X	X	X	X
Eriogonum elongatum var. elongatum	TALL BUCKWHEAT	Λ	- 1	Λ	Λ	/ A	1	X	Λ.	<i>^</i>	Λ
	WILLOW SMARTWEED				-			Λ		X	
Polygonum lapathifolium Pterostegia drymarioides	GRANNY'S HAIRNET	X	v	X	v		X	X		Λ	X
0 ,		X	X	X	X	37	X	X			X
*Rumex conglomeratus	WHORLED DOCK	v	X		V.	X	-	37	}	}	37
*Rumex crispus	CURLY DOCK	X			X			X			X

Family and Latin Name	Common Name		ı		•	Prope	erty			T	
		VP/MC	LCCP	PP	LCR	CR	RC	CV	BD	LL	LM
		VI/NIC	LCCI	11	LCK	CK	RC	CV	DD	LL	LIVI
PORTULACACEAE — Purslane Family											
Calandrinia ciliata	RED MAIDS										X
PRIMULACEAE — Primrose Family											
*Anagallis arvensis	SCARLET PIMPERNEL, POOR MAN'	X	X	X	X	X	X	X	X	X	X
Dodecatheon clevelandii ssp. clevelandii	PADRE'S SHOOTING STAR	X	X								
Samolous parviflorus	WATER-PIMPERNEL		X			X					
RANUNCULACEAE — Buttercup Famil											
Clematis ligusticifolia	YERBA DE CHIVA	X	X								
ROSACEAE — Rose Family											
Adenostoma fasciculatum	CHAMISE	X		X	X		X		X	X	X
Cercocarpus minutiflorus	SAN DIEGO MOUNTAIN-MAHOGAN				1				X		
Heteromeles arbutifolia	TOYON, CHRISTMAS BERRY	X	х	X	X	X	X	X	X	X	X
Prunus ilicifolia ssp. ilicifolia	ISLAY, HOLLY-LEAF CHERRY		х			X					
Rubus ursinus	CALIFORNIA BLACKBERRY					X					
RHAMNACEAE — Buckthorn Family	e.iiii e.iiii e.iiii										
Adolphia californica	SPINESHRUB	X	х		X						X
Ceanothus verrucosus	WART-STEM-LILAC	71	A	X	71		X		X	X	71
Ceonothus tomentosus	RAMONA-LILAC										X
Rhamnus crocea	SPINY REDBERRY		X						X		71
RUBIACEAE — Madder or Coffee Family	STRVI RESERVI		- 1						21		
Galium angustifolium ssp. angustifolium	NARROW-LEAF BEDSTRAW	X	X								X
Galium aparine	COMMON BEDSTRAW, GOOSE GRA	X						X	X		X
SALICACEAE — Willow Family											
Salix gooddingii	GOODDING'S BLACK WILLOW		Х	X		X				X	X
Salix laevigata	RED WILLOW									X	
Salix lasiolepis	ARROYO WILLOW		Х	X	X	X		X		X	X
SAURURACEAE — Lizard's Tail Family	radio 10 William										
Anemopsis californica	YERBA MANSA		X			X					
SAXIFRAGACEAE — Saxifrage Family	***										
Jepsonia parryi	COAST JEPSONIA	X									
SCROPHULARIACEAE											
Scrophularia californica ssp. floribunda	CALIFORNIA BEE PLANT/FIGWORT								X	X	
SOLANACEAE — Nightshade Family											
Datura wrightii	WESTERN JIMSON WEED			X				X			
*Nicotiana glauca	TREE TOBACCO	X	X	X	X	X		X	X	X	X
Solanum americanum	WHITE NIGHTSHADE							X	X		X
Solanum douglasii	DOUGLAS'S NIGHTSHADE	X		X					X	X	
Solanum parishii	PARISH'S NIGHTSHADE	X		X	X				X	X	X
TAMARICACEAE — Tamarisk Family									· -	-	·-
Tamarix spp.	SALTCEDAR				X	X					X
TROPAEOLACEAE — Nasturtium Family	-				1						·-
*Tropaeolum majus	GARDEN NASTURTIUM		X	X							

Family and Latin Name	Common Name					Prop	erty				
		VP/MC	LCCP	PP	LCR	CR	RC	CV	BD	LL	LM
TYPHACEAE — Cattail Family											
Typha ssp.	CATTAIL		X		X	X					
URTICACEAE - NETTLE FAMILY											
Parietaria hespera	PELLITORY	X		X					X	X	
Urtica dioica ssp. holosericea	HOARY NETTLE		X	X							
*Urtica urens	DWARF NETTLE		X	X					X	X	
Hesperocnide tenella	WESTERN NETTLE								X	X	
VERBENACEAE — Vervain Family											
Verbena lasiostachys	VERVAIN							X			
VITACEAE — Grape Family											
Vitis girdiana	DESERT WILD GRAPE										X

^{*} Denotes non-native species

Nomenclature follows: Checklist of the Vascular Plants of San Diego County, 4th Edition. Jon P. Rebman and Michael G. Simpson. 2006

VP/MC=Veterans Park/Macario Canyon; LCCP= La Costa Canyon Park; PP= Poinsettia Park; LCR=La Costa Romeria; CR =Carrillo Ranch; RC=Research Center CV=Carlsbad Village; BD=Batiquitos Drive; LL=Lagoon Lane; LM=Los Monos.

Appendix 3. CNPS Releve's

CNPS and CDFG Combined Vegetation Rapid Assessment and Relevé Field Form

(Relevé of Rapid Assessment (Circle One) (Revised Sept 10, 2009) For Office Use: Final database #: Final vegetation type Alliance name: Association I. LOCATIONAL/ENVIRONMENTAL DESCRIPTION Name(s) of surveyors (circle recorder): Polygon/Stand #: Air photo: Date: Rounan Aprest 441 POTRICK MCCORNELL П June 01 2010 or NAD83. Bearing, left axis at SW pt 32-2 (degrees) of Long/Short side GPS wypt #: Datum: 9 UTMN 366296 3 Zone: 10 (11)(circle one) Error: ± 3.6 ft/m (pdop) UTME - 7 GPS within stand?(Yes)/ No If No, cite from waypoint to stand, distance (meters) & bearing П (ft Dm Camera Name/Photograph #'s: None to Land Elevation: 14 Stand Size (acres): <1, (1-3 >5 | Plot Size (m²): 10 / 100 / 400 / 1000 | Plot Shape 13 x 3 | ft / 60 or Circle Radius fit / m П NE NW SE SW (Flat) Variable /All | Steepness, Actual °: > 25° Exposure, Actual °: Micro: convex flat concave upper mid lower (bottom) undulating Topography: Macro: top Upland or Wetland/Riparian (circle one) Geology code: Soil Texture code: % Surface cover H20: 5 BA Stems: 2 Litter 5 7 Bedrock: Fines: 24 =100% Boulder: Stone: Cobble: Gravel: П (Incl. outcrops) (>60cm diam) (25-60cm) (2mm-7.5cm) (Incl sand, mud) (7.5-25cm) Past bioturbation present? Y / N | % Hoof punch % Current year bioturbation П Site history, stand age, comments: e Xotics Type/ Level of disturbance codes: OS / M OE / M "Other" II. HABITAT AND VEGETATION DESCRIPTION Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" dbh), T4 (11-24" dbh), T5 (>24" dbh), T6 multi-layered (T3 or T4 layer under T5, >60% cover) Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead), S3 mature (1-25% dead), S4 decadent (>25% dead) Herbaceous: H1 (<12" plant ht.), (H2 (>12" ht.) % Non-Vasc cover: Total % Vasc Veg cover: 50 __ Low-Medium Tree: 45 Shrub: < | Herbaceous: _ & % Cover -Overstory Tree Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Low-Medium Tree: 05 Shrub: 03 Herbaceous: 02 Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2-5m 05=5-10m 06=10-15m 07=15-20m 08=20-35m 09=35-50m 10=>50m Species, Stratum, and % cover. Stratum categories: T= Overstory tree, U= Understory Tree, S = Shrub, H= Herb, N= Non-vascular. % cover intervals for reference: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-75%, 75%. % cover | C | Strata | Species Strata Species % cover C lasistepis Olegionum lapathifolium 2 41 Za Canadensis Via H perus eragnostis H H Hosperum undulatur 4 1 Annaulis arvensis 31 1 belladanno Trobueblum majus 61 H MICH arpa 41 +1 <1 H 21 inus terebiathifoliu 5 <1 Eriodietyon erus Folin DEPLIS 2 Cy perus Agrostis viridis Unusual species: III. INTERPRETATION OF STAND Field-assessed vegetation alliance name: Field-assessed association name (optional): Adjacent alliances: Confidence in alliance identification: L M H Explain: П Phenology (E,P,L): Herb P Shrub F Tree Other identification or mapping information:

CNPS and CDFG Combined Vegetation Rapid Assessment and Relevé Field Form

RELEVE SPECIES SHEET (Revised 9/10/09)

Page 2 of Polygon/Stand #: LL1 Ripering forest- Lagoen- La que of Spaces

Stratum categories: T = Overstory tree, U = Understory tree, S = Shrub, H = Herb, and N = Non-vascular % Cover Intervals for reference: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-75%, >75%

Strata	Vascular plant name or lichen/bryophyte	% Cover	Collection	Final species determination
4	Baceharis pilularis	41		
5	Bacehoris pilularis	<1		
$\neg \dagger$		<u> </u>		
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Veterans PK/ Macario Conyon - NG/CSS

CNPS and CDFG Combined Vegetation Rapid Assessment and Relevé Field Form

Office Use: Final database #: Final veg			10, 20			
nome	etation typ		Allia			_
	TION	ىلـــ	Asso	ciation		
LOCATIONAL/ENVIRONMENTAL DESCRIP olygon/Stand #: Air photo: Date:		ame(s	s) of s	surveyors (circle recorder):		
mc0/ 2.24.		ame(s	-	. Vinje		\neg
PS wypt #: Mcol GPS name: (100) Datum:		3 -		70		
PS wypt #: GPS name: 100 Datum:	or NADS	3) Be	earing	g, left axis at SW pt (degrees) of Long// St	nort side	- 1
TME <u>62 4 0936 TUTMN 19</u>					m pd	ор
PS within stand? Yes / No If No, cite from wa	ypoint to s	tand,	dista	nce(meters) & bearing(degrees)		
levation: 947 (ft) m Camera Name/Photogr	aph #'s:					_
and Size (acres): 1-5, Plot Size (m ²):	10/(100)	400 /	1000	Plot ShapeZO x <u>5</u> ft / m or Circle Radius	sft /	m
xposure, Actual o: 203 NE NW SE SW	Flat Vari	iable /	All	Steepness, Actual °: 6 0° 1-5° (5-25	59 > 25	0
opography: Macro: top upper mid lower	bottom		Mici	ro: convex flat concave undulating		
eology code: Soil Texture code: _			1	Upland or Wetland/Riparian (circle one)		
Surface cover 20: O BA Stems: 70 Litter: ZO Bedrock: (Incl. outcrope Current year bioturbation Past bioturb	s) (>60cm	diam)	(25-	one: O Cobble: Gravel: Fines: C (2mm-7.5cm) (Incl sand, 1) N % Hoof punch (1)		%
te history, stand age, comments: Site 18 COASTAL SAGE SCND. NO DOSSIBLY DIA CONAL ONCA ON +	of Sur	0	1	historical distribunce		
for a couple of decades t						
ype/ Level of disturbance codes: 18 / 14 05	1_H	/		/ "Other"		
HABITAT AND VEGETATION DESCRIPTIO	N					
erbaceous: (412" plant ht.), H2 (>12" ht.)			Vasc		er:120	_
<u>Cover</u> -Overstory Tree Conifer/Hardwood: <u>eight Class</u> - Overstory Conifer/Hardwood: <u>feight classes</u> : 01=<1/2m 02=1/2-1m 03=1-2m 04=	/ l _/ l _2-5m 05=	Low-N Low-N 5-10m	Vasc Mediu Mediu 1 06=	Total % Vasc Veg cove Im Tree: Shrub: 30 Herbaceous: Im Tree: Shrub: 0Z Herbaceous: 10-15m 07=15-20m 08=20-35m 09=35-50m 10	e <u>r:/20</u> 20 0/)=>50m	
<u>Cover</u> -Overstory Tree Conifer/Hardwood: <u>eight Class</u> - Overstory Conifer/Hardwood: <u>leight classes</u> : 01=<1/2m 02=1/2-1m 03=1-2m 04= <u>oecies</u> , Stratum, and % cover. Stratum categories: <u>cover intervals for reference</u> : <1%, 1-5%, >5-15%, >1:	/I /I £2-5m 05= the T= Overst 5-25%, >25-	Low-M Low-N 5-10m tory tre 50%, >	Vasc Mediu Mediu 1 06= ee, U= >50-75	Total % Vasc Veg cover am Tree: Shrub: 30 Herbaceous: Shrub: 02 Herbaceous: 10-15m 07=15-20m 08=20-35m 09=35-50m 10 Understory Tree, S = Shrub, H= Herb, N= Non-1696, 75%.	er:/20 90 0/)=>50m vascular.	
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CNPS and CDFG Combined Vegetation Rapid Assessment and Relevé Field Form RELEVE SPECIES SHEET (Revised 9/10/09)

Page Z of Polygon/Stand #: MCD1

Stratum categories: T = Overstory tree, U = Understory tree, S = Shrub, H = Herb, and N=Non-vascular **%** Cover Intervals for reference: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-75%, >75%

Strata	Vascular plant name or lichen/bryophyte	% Cover	Collection	Final species determination
H	Sonaris a sper Vulpia mymos Bromus hordiauus Crastridium vinticosum Pectocenja spp.	41		
H	VU/ DIA MUMOS	41		
H	Ba mis hordence s	4		
#	Gastodium venticosum	4		
14	Protocena sea.	21		
		-		
				sp.
	3			
				g danggi yaki yan gili gamayiya yang da gana da masari da maga da masari ya da da da Masari da masari da masar
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CNPS and CDFG Combined Vegetation Rapid Assessment and Relevé Field Form Relevé de Rapid Assessment (Circle One) (Revised Sept 10, 2009) For Office Use: Final database #: Final vegetation type Alliance name: Association I. LOCATIONAL/ENVIRONMENTAL DESCRIPTION Polygon/Stand #: Air photo: Date: Name(s) of surveyors (circle recorder): J. Vinie mcoz GPS wypt #: MDZGPS name: Trimble Datum: П or NAD83) Bearing, left axis at SW pt 35/(degrees) of Long / Short side UTMN 199 47 32 Zone: 10 (11) (circle one) Error: ± 21 ft (m) pdop UTME 624 1295 GPS within stand? (S) No If No, cite from waypoint to stand, distance _____(meters) & bearing Elevation: 273 (ft) m Camera Name/Photograph #'s: Stand Size (acres): 1-5, > | Plot Size (m²): 10 / 100 / (400) / 1000 | Plot Shape 20 x 20ft mor Circle Radius ft/m Exposure, Actual °: 70 (NE) NW SE SW Flat Variable All | Steepness, Actual °: /9 0° 1-5° (5-25) Topography: Macro: top upper (mid) lower bottom | Micro: convex flat concave undulating) (pland or Wetland/Riparian (circle one) Geology code: Soil Texture code: _ | % Surface cover H20: O BA Stems: Z Litter: /O Bedrock: O Boulder: O Stone: Z Cobble: /O Gravel: 50 Fines: 26 =100%

(Incl. outcrops) (>60cm diam) (25-60cm) (7.5-25cm) (2mm-7.5cm) (Incl sand, mud)

(Current year bioturbation 2/ Past bioturbation present? Y N | % Hoof punch ______ П Site history, stand age, comments: Site Contains a lorge amount of bare ground SUGASTOPL. THIS IS CLOCKENTED IN All THE SOUTHER MERITIME CHAP. on the property, but truck is some crossion at this location. A large arily is located in the SE corner of the plat. Very & were of nontatives - some Type/ Level of disturbance codes: 23 / H II. HABITAT AND VEGETATION DESCRIPTION Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" dbh), T4 (11-24" dbh), T5 (>24" dbh), T6 multi-layered (T3 or T4 layer under T5, >60% cover) Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead), S3 mature (1-25% dead), S4 decadent (>25% dead) Herbaceous: H1 <12" plant ht.), H2 (>12" ht.) % Non-Vasc cover: Total % Vasc Veg cover: 40 - noticed. Height Class - Overstory Conifer/Hardwood: ____/ Low-Medium Tree: Shrub: OS Herbaceous: O/ Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2-5m 05=5-10m 06=10-15m 07=15-20m 08=20-35m 09=35-50m 10=>50m Species, Stratum, and % cover. Stratum categories: T= Overstory tree, U= Understory Tree, S = Shrub, H= Herb, N= Non-vascular. % cover intervals for reference: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-75%, 75%. Strata Species % cover C Strata Species % cover C 80 21 INA columbarioe S 10 Artemisia californica 2 Z 41 VICCA Schidiacra mimulus aurentiacus S 2 11 assella legida 21 pulchra 41 H Charizanthe Empirate fin 41 4/ 1+ 21 Crassula connata Unusual species: III. INTERPRETATION OF STAND Field-assessed vegetation alliance name: Field-assessed association name (optional): Adjacent alliances: Confidence in alliance identification: L M H Explain: Phenology (E,P,L): Herb Tree Other identification or mapping information:

CNPS and CDFG Combined Vegetation Rapid Assessment and Relevé Field Form RELEVE SPECIES SHEET (Revised 9/10/09)

Page Z of Polygon/Stand #: MCDZ

Stratum categories: T = Overstory tree, U = Understory tree, S = Shrub, H = Herb, and N=Non-vascular **% Cover Intervals for reference:** <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-75%, >75%

Strata	Vascular plant name or lichen/bryophyte	% Cover	Collection	Final species determination
H	Fillago gallica	41		
H	Pentagramma trienguloris	41		
Н	Fillago gallica Pentagramma tnorguloris Gnaphalium spp.	41		
H	Antichinum nuttalianum	41		
H	micabilis lacris	41		
H	Dudleva lanceolata	41		
H	Cordy lanthus rigidus Opuntia Littoralis	41		
5	Opuntia Littoralis	41		
# 基本	Selagine II a SPP. Marah macrocorpus Rhus integri to lia Dicte lo stemma apitatum Osmadenia tenella	41		
Н	Morah macoccorpus	41	7	
3	Rhus integrito lia	41		
H	Dichelostomma apitatum	4		
H	Osmadenia tenella	4		
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CNPS and CDFG Combined Vegetation Rapid Assessment and Relevé Field Form
(Revised Sept 10, 2009)

For Office Use:	Final database #:	Final vegetation		iance	
		name:		sociation	
	ENVIRONMENTA			<u> </u>	
Polygon/Stand #:	Air photo:			f surveyors (circle recorder):	
mc03			J.	Vinje	
GPS wynt #: M/D	GPS name: (200)	/C Datum: or I	ADS Reari	ng, left axis at SW pt <u>350</u> (degrees) of <u>Long / Sl</u>	hort side
1024	0 697 XT _{UT}	199			
UTME 627	UT UT	MN / / /	7010	Zone: 10 /(1) (circle one) Error: ± 2 / ft	t/m/pdop
GPS within stand?	Yes / No If No,		ıt to stand, dis	tance(meters) & bearing(degrees)	
	ft) m Camera Na				
				00 Plot Shape 20 x 20 ft / m or Circle Radiu	Dis.
				Steepness, Actual °: /O 0° 1-5° (5-25	5) > 25°
Topography: Maci	o: top (upper)	mid lower bo	ottom Mi	cro: convex flat concave undulating	
Geology code:	Soil Tex	ture code:		Upland or Wetland/Riparian (circle one)	
% Surface cover					
H20: O BA Sten	18: <u>/O</u> Litter: <u>70</u>	Bedrock: O B (Incl. outcrops) (>) Post bioturbetics	oulder: OS 60cm diam) (2	tone: / Cobble: / Gravel: 8 Fines: / (2mm-7.5cm) (Incl sand, 10mm) % Hoof punch	<u>=100%</u> mud)
Site history, stand	age, comments:	site is a	Imost C	ompletely dominated by	/
Adolopia	(ali fornic	a. Entire	stand	is like this - very unique!	LOID
				eas comprised of annual	
native	SCACE	101119	avive VI	as withing	,
Tune / Love I of dily	urbance codes: <u>05</u>			/ "01"	
***************************************				/	WHAT I SHOW I SH
II. HABITAT ANI	VEGETATION DI	ESCRIPTION			
Tree DBH : T1 (<1	'dbh). T2 (1-6" dbh).	T3 (6-11" dbh) T4	(11-24" dbh)	<u>15</u> (>24" dbh), <u>16</u> multi-layered (T3 or T4 layer under T5,	>60% cover)
	(3)		T 101	dead), <u>S4</u> decadent (>25% dead)	, - 0070 00701)
					00
Herbaceous (H1)	12" plant ht.), <u>H2</u> (>	12" ht.)	% Non-Vas	sc cover: O Total % Vasc Veg cover	er: 70
% Cover -Overston	y Tree Conifer/Har	dwood:/_	Low-Med	ium Tree: Shrub: 85 Herbaceous: _	5
Height Class - Ove	rstory Conifer/Hard	dwood: /	Low-Med	lium Tree: Shrub: <u>D3</u> Herbaceous: <u>4</u>	01
				5=10-15m 07=15-20m 08=20-35m 09=35-50m 10	
Tiergin crabbeb. 01	1/2III 02 1/2 IIII 0				
			erstory tree,	U= Understory Tree, S = Shrub, H= Herb, N= Non-	vocculor
			- 05 500/ - 50		vasculai.
% cover intervals fo	nd % cover. Stratur r reference: <1%, 1-5%	%, >5-15%, >15-25%			
		%, >5-15%, >15-25% %	cover C Strat		% cover
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% cover intervals for Strata Species S Ado / P H Conta H Dictre/ E S Encu S Yuca S Rhus H Nas H Sona Unusual species: III. INTERPRETA	ma Califord NEA MAII FOR DECA MAII FOR DECA MAII FOR DECA MAII FOR MAIN MAIN MAIN MAIN DECAMA TION OF STAND	mica B msis / ibahm c nica ra inca evs / mica	Cover C Strate	Apiastum cravstitolium Calochoches spp. Brassica mara	% cover () Z L/ L/ L/ L/ L/ L/ L/ L/ L/
% cover intervals for Strata Species S Ado / P H Centa H Dictrelia S Enceu S Yucca S Rhus H Sona L S Artema Unusual species: III. INTERPRETA	MA CALIFORD WED MCII FOR MCII	mica B nsis / italum 2 italum 3 italum 3 italum 3 italum 4 italum 3 italum 4 italum 3 italum	Cover C Strate	A Species Morah macrolorpu S Apiastrum cravstifolium Quelochortus spp. Brassica migra Endium citutarium mirabalis lacris Bromus modnitusis Jucy pto chrysothemifolia Pterostegia anymaniodis	% cover () Z L/ L/ L/ L/ L/ L/ L/ L/ L/
% cover intervals for Strata Species S Ado / P H Centa H Dictrelia S Enceu S Yucca S Rhus H Sona L S Artema Unusual species: III. INTERPRETA	ma Califord NEA MAII FOR DECA MAII FOR DECA MAII FOR DECA MAII FOR MAIN MAIN MAIN MAIN DECAMA TION OF STAND	mica B nsis / italum 2 italum 3 italum 3 italum 3 italum 4 italum 3 italum 4 italum 3 italum	Cover C Strate	A Species Morah macrolorpu S Apiastrum cravstifolium Quelochortus spp. Brassica migra Endium citutarium mirabalis lacris Bromus modnitusis Jucy pto chrysothemifolia Pterostegia anymaniodis	% cover () Z L/ L/ L/ L/ L/ L/ L/ L/ L/
Strata Species S Ado p H Conta H Dictretic S Enceu S Phus H Nas H Sona Unusual species: III. INTERPRETA	ma Califord Dreamelite Dream	mica B nsis / italum 2 italum 3 italum 3 italum 3 italum 4 italum 3 italum 4 italum 3 italum	Cover C Strate	A Species Morah macrolorpu S Apiastrum cravstifolium Quelochortus spp. Brassica migra Endium citutarium mirabalis lacris Bromus modnitusis Jucy pto chrysothemifolia Pterostegia anymaniodis	% cover () Z L/ L/ L/ L/ L/ L/ L/ L/ L/
% cover intervals for Strata Species S Ado/p H Centa H Dictre/i S Encu S Yucid S Rhus H Sonce Unusual species: HI. INTERPRETA	ma Califord Dreamelite Dream	mica B nsis / italum 2 italum 3 italum 3 italum 3 italum 4 italum 3 italum 4 italum 3 italum	Cover C Strate	A Species Morah macrolorpu S Apiastrum cravstifolium Quelochortus spp. Brassica migra Endium citutarium mirabalis lacris Bromus modnitusis Jucy pto chrysothemifolia Pterostegia anymaniodis	% cover () Z L/ L/ L/ L/ L/ L/ L/ L/ L/
% cover intervals for Strata Species S Adolp H Centa H Dictre to S Yucca S Phus H Soncia Unusual species: HI. INTERPRETA Field-assessed vege Field-assessed assortable and species: Adjacent alliances:	ma Califord Dreamelite Dream	(A), >5-15%, >15-25% (B) I CA (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	Cover C Strate	A Species Morah macrolorpu S Apiastrum cravstifolium Quelochortus spp. Brassica migra Endium citutarium mirabalis lacris Bromus modnitusis Jucy pto chrysothemifolia Pterostegia anymaniodis	% cover () Z L/ L/ L/ L/ L/ L/ L/ L/ L/
% cover intervals for Strata Species S Adolp H Centa H Dictre to S Yucca S Phus H Soncia Unusual species: HI. INTERPRETA Field-assessed vege Field-assessed assortable and species: Adjacent alliances:	MA CALIFORD WA CALIFORD WE ME IN THE STAND A CALIFORD A CALIFORD A CALIFORD A CALIFORD A CALIFORD A CALIFORD TON OF STAND THE CONTROL OF STAND	Mica B	Cover C Strate	A Species Morah macrolorpu S Apiastrum cravstifolium Quelochortus spp. Brassica migra Endium citutarium mirabalis lacris Bromus modnitusis Jucy pto chrysothemifolia Pterostegia anymaniodis	% cover () Z L/ L/ L/ L/ L/ L/ L/ L/ L/
Strata Species Shall period p	MA CALIFORD WA CALIFORD WE ME IN THE STAND A CALIFORD A CALIFORD A CALIFORD A CALIFORD A CALIFORD A CALIFORD TON OF STAND THE CONTROL OF STAND	Mica B	Cover C Strate	Morah macrolorpus Apiastrum cravstitolium Quochortus spp. Brassica migra Endium citutarium Mirabalis lacris Bomus modritusis Jucrypto chrysontemitolia Ptrostegia grymaniodis	% cover () Z L/ L/ L/ L/ L/ L/ L/ L/ L/
Strata Species Shall period p	MA CALIFORD WA CALIFORD WE ME IN THE STAND A CALIFORD A CALIFORD A CALIFORD A CALIFORD A CALIFORD A CALIFORD TON OF STAND THE CONTROL OF STAND	Mica B	Cover C Strate	Morah macrolorpus Apiastrum cravstitolium Quochortus spp. Brassica migra Endium citutarium Mirabalis lacris Bomus modritusis Jucrypto chrysontemitolia Ptrostegia grymaniodis	% cover () Z L/ L/ L/ L/ L/ L/ L/ L/ L/

CNPS and CDFG Combined Vegetation Rapid Assessment and Relevé Field Form

RELEVE SPECIES SHEET (Revised 9/10/09)

Page Z of Polygon/Stand #: MC03

Stratum categories: T = Overstory tree, U = Understory tree, S = Shrub, H = Herb, and N=Non-vascular % Cover Intervals for reference: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-75%, >75%

Strata	Vascular plant name or lichen/bryophyte	% Cover	Collection	Final species determination
H	Evoposbia anlus	41		
S	Dougta litteralis	41		
Н	Opentia li Horalis Ponetenia respera	21		
	<u> </u>			· · · · · · · · · · · · · · · · · · ·
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Veterans PK/ Macono Cnyn-CSS

CNPS and CDFG Combined Vegetation Rapid Assessment and Relevé Field Form

Relevé or Rapid Assessment (Circle One)	(Revised Sept 10, 2009)	
[1] The second s	etation type Alliance	
name: I. LOCATIONAL/ENVIRONMENTAL DESCRIPT	Association	
Polygon/Stand #: Air photo: Date:	Name(s) of surveyors (circle recorder):	
	or (AD83). Bearing, left axis at SW pt 4 (degrees) of Long / Short side	
UTME 472018 UTMN 36	166397 Zone: 10 (11) (circle one) Error: ± 4 ft / ft)	dop
	point to stand, distance(meters) & bearing(degrees)	
Elevation: 143 m Camera Name/Photogra		_
Exposure, Actual º: 255 NE (NW) SE (SW)		/ m 25°
	bottom Micro: convex flat concave undulating upland or Wetland/Riparian (circle one)	
% Surface cover		
H20: O BA Stems: S Litter: 83 Bedrock: C	D Boulder: O Stone: Cobble: Gravel: Fines: =10	0%
% Current year bioturbation/ Past bioturb	ation present? Y / N % Hoof punch _ C	
	of ageclass for community. CSSW/	a
Some dead Salvia Shribs	(Arought"). Some art misia dichact too.	
Ensier in season would he	ave captived a higher annual plant ssp.	45
Type/ Level of disturbance codes://		
II. HABITAT AND VEGETATION DESCRIPTION	V	
Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead),), <u>T4</u> (11-24" dbh), <u>T5</u> (>24" dbh), <u>T6</u> multi-layered (T3 or T4 layer under T5, >60% co mature (1-25% dead), <u>S4</u> decadent (>25% dead)	ver)
<u>% Cover</u> -Overstory Tree Conifer/Hardwood:	% Non-Vasc cover: Total % Vasc Veg cover: // Low-Medium Tree: Shrub: 75 Herbaceous: 80 Low-Medium Tree: Shrub: 0.3 Herbaceous: 0/	100
<u>Meight Class</u> - Overstory Conifer/Hardwood:	Low-Medium Tree: Shrub: /3 Herbaceous: 20	
<u>Height Class</u> - Overstory Conifer/Hardwood: <u>Height Class</u> - Overstory Conifer/Hardwood: <u>Height classes</u> : 01=<1/2m 02=1/2-1m 03=1-2m 04=2 Species, Stratum, and % cover. Stratum categories:	Low-Medium Tree: Shrub: Herbaceous:	
<u>Height Class</u> - Overstory Tree Conifer/Hardwood: <u>Height Class</u> - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2 Species, Stratum, and % cover. Stratum categories: % cover intervals for reference: <1%, 1-5%, >5-15%, >15	Low-Medium Tree: Shrub: Herbaceous:	r.
Year Cover - Overstory Tree Conifer/Hardwood: Height Class Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2	Low-Medium Tree: Shrub: Herbaceous:	r.
Weight Class - Overstory Tree Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2	Low-Medium Tree: Shrub: Herbaceous:	r.
Secies Salva melli fera Surface Salva melli fera Surface	Low-Medium Tree: Shrub: Herbaceous:	r.
Meight Class - Overstory Tree Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2	Low-Medium Tree: Shrub: Herbaceous:	r.
Species, Stratum, and % cover. Stratum categories: % cover intervals for reference: <1%, 1-5%, >5-15%, >15	Low-Medium Tree: Shrub: Herbaceous: D	r.
Species Salna melli fera Species Salna melli fera Species Specie	Low-Medium Tree: Shrub: Herbaceous: D	r.
Species Salna mellifera	Low-Medium Tree: Shrub: Herbaceous: D	r.
Height Class - Overstory Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2	Low-Medium Tree: Shrub: 13 Herbaceous: 20 Low-Medium Tree: Shrub: 03 Herbaceous: 0/ 2-5m 05=5-10m 06=10-15m 07=15-20m 08=20-35m 09=35-50m 10=>50m T= Overstory tree, U= Understory Tree, S = Shrub, H= Herb, N= Non-vascula -25%, >25-50%, >50-75%, 75%. % cover C Strata Species % cove 15 H Vulpia myuns 40 45 H Anagallis avias is 1 B H Anagallis avias is 5 10 H Banus hardeceus 5 5 H Licapptachysonthemistia -1 10 H Banus hardeceus 5 5 H Licapptachysonthemistia -1 11 Strata Species 6 12 Comptachysonthemistia -1 13 Comptachysonthemistia -1 14 Phostaga dymnodus -1	r.
Species Salna mellifera	Low-Medium Tree: Shrub: Herbaceous: D	r.
Height Class - Overstory Tree Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=7 Species, Stratum, and % cover. Stratum categories: % cover intervals for reference: <1%, 1-5%, >5-15%, >15 Strata Species S Salna melli fera S Lifemisia Cali fornica S Phus integrifo ha S International Physician H Nassella lepida S Mala Lothamnus fasciculati H Boms Mash Hasis nky s H Boms Mash Hasis nky s H Duranta fasciculata	Low-Medium Tree: Shrub: 13 Herbaceous: 20 Low-Medium Tree: Shrub: 03 Herbaceous: 0/ 2-5m 05=5-10m 06=10-15m 07=15-20m 08=20-35m 09=35-50m 10=>50m T= Overstory tree, U= Understory Tree, S = Shrub, H= Herb, N= Non-vascula -25%, >25-50%, >50-75%, 75%. % cover C Strata Species % cove 15 H Vulpia myuns 40 45 H Anagallis avias is 1 B H Anagallis avias is 5 10 H Banus hardeceus 5 5 H Licapptachysonthemistia -1 10 H Banus hardeceus 5 5 H Licapptachysonthemistia -1 11 Strata Species 6 12 Comptachysonthemistia -1 13 Comptachysonthemistia -1 14 Phostaga dymnodus -1	r.
Height Class - Overstory Tree Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2 Species, Stratum, and % cover. Stratum categories: % cover intervals for reference: <1%, 1-5%, >5-15%, >15 Strata Species S Salna melli fera S Actemisia Cali fornica S Phus integrifo has S Indeha Yali fornica H Nassella lepida S Mala Lothaman stascialat H BOOSSIG Maia H BOMS MASH tussis wans	Low-Medium Tree: Shrub: Herbaceous: D	r.
Height Class - Overstory Tree Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2 Species, Stratum, and % cover. Stratum categories: % cover intervals for reference: <1%, 1-5%, >5-15%, >15 Strata Species S Salna melli fera S Actemisia Cali fornica S Phus integrifo ha S Intelia tali fornica H Nassella lepida H Brossia mada tapida H Brows mada tapida H Brows mada tasia lata Unusual species: III. INTERPRETATION OF STAND	Low-Medium Tree: Shrub: 13 Herbaceous: 20 Low-Medium Tree: Shrub: 03 Herbaceous: 0/ 2-5m 05=5-10m 06=10-15m 07=15-20m 08=20-35m 09=35-50m 10=>50m T= Overstory tree, U= Understory Tree, S = Shrub, H= Herb, N= Non-vascula -25%, >25-50%, >50-75%, 75%. % cover C Strata Species % cove 15 H Vulpia myuns 40 45 H Anagallis Arians is 1 8 H Anagallis Arians is 1 10 H Bomus hordeceus 5 5 H Gucyptachysenthemishia -1 15 H Picnschiolas 21 10 H Bocchon's pilulans 21	r.
Height Class - Overstory Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Height Classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2 Species, Stratum, and % cover. Stratum categories: % cover intervals for reference: <1%, 1-5%, >5-15%, >15 Strata Species Salna melli fera Salna melli fornica Salna m	Low-Medium Tree: Shrub: 13 Herbaceous: 20 Low-Medium Tree: Shrub: 03 Herbaceous: 0/ 2-5m 05=5-10m 06=10-15m 07=15-20m 08=20-35m 09=35-50m 10=>50m T= Overstory tree, U= Understory Tree, S = Shrub, H= Herb, N= Non-vascula -25%, >25-50%, >50-75%, 75%. % cover C Strata Species % cover Shrub: 03 Herbaceous: 0/ C Strata Species 0/	r.
Height Class - Overstory Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Height Classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=7 Species, Stratum, and % cover. Stratum categories: % cover intervals for reference: <1%, 1-5%, >5-15%, >15 Strata Species Salva mellifera Species Salva mellifera Strata Species Salva mellifera Salva	Low-Medium Tree: Shrub: 13 Herbaceous: 20 Low-Medium Tree: Shrub: 03 Herbaceous: 0/ 2-5m 05=5-10m 06=10-15m 07=15-20m 08=20-35m 09=35-50m 10=>50m T= Overstory tree, U= Understory Tree, S = Shrub, H= Herb, N= Non-vascula -25%, >25-50%, >50-75%, 75%. % cover C Strata Species % cover Shrub: 03 Herbaceous: 0/ C Strata Species 0/	r.
Height Class - Overstory Conifer/Hardwood: Height Classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=7 Species, Stratum, and % cover. Stratum categories: % cover intervals for reference: <1%, 1-5%, >5-15%, >15 Strata Species S Salva melli fera S Litemsia Cali fornica S Lhus integrifo ha S Lhus integrifo ha S Lhus integrifo ha S Mala Lothaman s fasciculate H Boms mash finsis nkms It Boms mash finsis nkms Unusual species: III. INTERPRETATION OF STAND Field-assessed vegetation alliance name: Field-assessed association name (optional): Adjacent alliances:	Low-Medium Tree: Shrub: 13 Herbaceous: 20 Low-Medium Tree: Shrub: 03 Herbaceous: 0/ 2-5m 05=5-10m 06=10-15m 07=15-20m 08=20-35m 09=35-50m 10=>50m T= Overstory tree, U= Understory Tree, S = Shrub, H= Herb, N= Non-vascula -25%, >25-50%, >50-75%, 75%. % cover C Strata Species % cover Shrub: 03 Herbaceous: 0/ C Strata Species 0/	r.
Height Class - Overstory Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=7 Species, Stratum, and % cover. Stratum categories: % cover intervals for reference: <1%, 1-5%, >5-15%, >15 Strata Species S Salva melli fera S Litemsia Cali fornica S Phus integrafo has S Intervals a fali fornica S Phus integrafo has S Intervals for reference: <1%, 1-5%, >5-15%, >15 Height Classes (1%, 1-5	Low-Medium Tree: Shrub: 13 Herbaceous: 20 Low-Medium Tree: Shrub: 03 Herbaceous: 0/ 2-5m 05=5-10m 06=10-15m 07=15-20m 08=20-35m 09=35-50m 10=>50m T= Overstory tree, U= Understory Tree, S = Shrub, H= Herb, N= Non-vascula -25%, >25-50%, >50-75%, 75%. % cover C Strata Species % cover Shrub: 03 Herbaceous: 0/ C Strata Species 0/	r.
Height Class - Overstory Conifer/Hardwood: Height Classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=7 Species, Stratum, and % cover. Stratum categories: % cover intervals for reference: <1%, 1-5%, >5-15%, >15 Strata Species S Salna melli fera S Lhus integrifoha S Lhus integrifoha S Lhus integrifoha S Mala Lothamnus fasciculate H Massella lepida H Boms mash finsis nkms Unusual species: III. INTERPRETATION OF STAND Field-assessed vegetation alliance name: Field-assessed association name (optional): Adjacent alliances:	Low-Medium Tree: Shrub: /3 Herbaceous: 80 Low-Medium Tree: Shrub: 03 Herbaceous: 0/ 2-5m 05=5-10m 06=10-15m 07=15-20m 08=20-35m 09=35-50m 10=>50m T= Overstory tree, U= Understory Tree, S = Shrub, H= Herb, N= Non-vascula-25%, >25-50%, >50-75%, 75%. % cover C Strata Species % cover C Strata Species % cover 15 H Vulpia myuas 40 45 H Vulpia myuas 40 45 H Anagalli Sariansis. 1 3 H Snayhalium Stamineum U 10 H Banmus hardeceus 5 5 H Eucryptachyscottumifaia U 21 H Phastagia dymanodes 21 5 H Picriscomiolos 21 10 H Bachans pilulans 21	r.
Height Class - Overstory Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Height Classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=7 Species, Stratum, and % cover. Stratum categories: % cover intervals for reference: <1%, 1-5%, >5-15%, >15 Strata Species Salva melli fera Strata Species Salva melli fera Salva mella mella melli fera Salva melli fera Salva mella melli fera Salva mell	Low-Medium Tree: Shrub: Herbaceous:	r.

CNPS and CDFG Combined Vegetation Rapid Assessment and Relevé Field Form RELEVE SPECIES SHEET (Revised 9/10/09)

Page 2 of Polygon/Stand #: MLO 4

 $\textbf{Stratum categories:} \ T = Overstory \ tree, \ U = Understory \ tree, \ S = Shrub, \ H = Herb, \ and \ N = Non-vascular$ **%** Cover Intervals for reference: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-75%, >75%

Strata	Vascular plant name or lichen/bryophyte	% Cover	Collection	Final species determination
Н	Stochus advacides rigida	. 4		
H	Greenalium californicum	4		
H	Stockys sajvgoides rigida Grephalium californicum Cryptantha cleuclandii	41		
H	(101:00 0.1.	41		
H	aniastwa enaustifolium	41		
H	Apiastwa angustifolium Somehus asper Malosma laurina Frilago animica Enzium ciatanium	4		
S	malosma laurina	21		
Н	Frilago primica	4		
H	Endium ciatanium	41		
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Poinsettia Park- CSS

CNPS and CDFG Combined Vegetation Rapid Assessment and Relevé Field Form

			·	A 11:		
For Office Use:	Final database #:		ion type	Alliance		
LOCATIONAL	L ENVIRONMENTA	name:	N	Association		
Polygon/Stand #:	Air photo:			e(s) of surveyors (circle recorder):		
PPOI		5.710.1		J. rinje		
	Tomb	e				
GPS wypt #: <u> 190 </u>	GPS name: (700	Datum: or	(NAD83)	Bearing, left axis at SW pt 342 (degrees) of Long / S	<u>hort</u> side	:
UTME <u>47</u>	<u>/ / 3/ "</u> บา	MN 3 6 6	391	S Zone: 10/11)(circle one) Error: ± < / f	t / m / pd	lop
GPS within stand?	Yes / No If No,	cite from waypo	int to stand	d, distance(meters) & bearing(degrees)		
	ft) m Camera N			/ 1000 DI (G) 70 70 C D (C)		,
				// 1000 Plot Shape 20 x 20 ft (m) or Circle Radiu		
				e /All Steepness, Actual °: /4 0° 1-5° (5-2 Micro: convex flat concave (undulating)	25) > 2	2
				Upland or Wetland/Riparian (circle one)		
	5011 16	xture code:		_ Opiand/ of Wetiand/Riparian (circle one)		
		(Incl. outcrops) (>60cm diam	Stone: Cobble: Gravel: Fines: Z (25-60cm) (7.5-25cm) (2mm-7.5cm) (Incl sand,	Z_O=100 mud)	%
				? Y N % Hoof punch		
Site history, stand	age, comments:	SIK Opp	cas to	here vegetation that is all	/	
M SON	Lage. So	one Artem	usia.	Bacehon's pilvions seedling	<u> </u>	
present	, but most s	MANDS IP	plai	older and one similar in a	ge.	
				· · · · · · · · · · · · · · · · · · ·		
	urbance codes:			/"Other"		
II. HABITAT ANI	VEGETATION D	ESCRIPTION				
Tree DBH : <u>T1</u> (<1		<u>T3</u> (6-11" dbh), <u>T</u>	<u>[4</u> (11-24" d	bh), <u>T5</u> (>24" dbh), <u>T6</u> multi-layered (T3 or T4 layer under T5	, >60% cove	er)
	"dbh), <u>T2</u> (1-6" dbh),			bh), <u>T5</u> (>24" dbh), <u>T6</u> multi-layered (T3 or T4 layer under T5 .25% dead), <u>S4</u> decadent (>25% dead)	,>60% cove	er)
Shrub: S1 seedling	"dbh), <u>T2</u> (1-6" dbh), g (<3 yr. old), <u>S2</u> you	ng (<1% dead), S3	<u>8</u> mature (1-	.25% dead), <u>\$4</u> decadent (>25% dead)	8	0
Shrub: <u>S1</u> seedling Herbaceous: <u>H1</u> (<	"dbh), <u>T2</u> (1-6"dbh), g (<3 yr. old), <u>S2</u> your (12" plant ht.), <u>H2</u> (>	ng (<1% dead), <u>S3</u> -12" ht.)	3 mature (1- % Non	25% dead), <u>S4</u> decadent (>25% dead) 1-Vasc cover:/	er: #	0
Shrub: <u>S1</u> seedling Herbaceous: <u>(M1</u> (< <u>% Cover</u> -Oversto	"dbh), <u>T2</u> (1-6" dbh), (<3 yr. old), <u>S2</u> your (12" plant ht.), <u>H2</u> (> ry Tree Conifer/Hai	ng (<1% dead), <u>S3</u> -12" ht.) rdwood:/_	3 mature (1- % Non Low	25% dead), <u>S4</u> decadent (>25% dead) 1-Vasc cover: / <u>Total % Vasc Veg cov</u> -Medium Tree: Shrub: <u>SO</u> Herbaceous: 4	er: #00 41	0
Shrub: <u>S1</u> seedling Herbaceous: <u>V1</u> (- <u>% Cover</u> -Oversto <u>Height Class</u> - Ove	"dbh), T2 (1-6"dbh), g (<3 yr. old), S2 you (12" plant ht.), H2 (> ry Tree Conifer/Han	ng (<1% dead), S3 -12" ht.) rdwood:/_	8 mature (1-	-25% dead), <u>S4</u> decadent (>25% dead) -1-Vasc cover: / <u>Total % Vasc Veg cov</u> -Medium Tree: Shrub: <u>80</u> Herbaceous: 4 -Medium Tree: Shrub: <u>03</u> Herbaceous: 4	er: #01 01	0
Shrub: S1 seedling Herbaceous: H1 (% Cover - Overston Height Class - Over Height classes: 01=	"dbh), <u>T2</u> (1-6" dbh), g (<3 yr. old), <u>S2</u> you y "plant ht.), <u>H2</u> (> ry Tree Conifer/Har erstory Conifer/Har <-1/2m 02=1/2-1m	ng (<1% dead), S3 -12" ht.) rdwood:/ dwood:/ 03=1-2m 04=2-51	Mature (1- Mon Low Low m 05=5-10	25% dead), <u>S4</u> decadent (>25% dead) 1-Vasc cover: / <u>Total % Vasc Veg cov</u> 1-Medium Tree: Shrub: <u>BO</u> Herbaceous: <u>4</u> 1-Medium Tree: Shrub: <u>O J</u> Herbaceous: <u>4</u> 1-Medium Tree: Shrub: <u>1</u> 1-Medium Tree: Shrub: <u></u>	er: 20 21 01 0=>50m	0
Shrub: S1 seedling Herbaceous: H1 (< % Cover - Overston Height Class - Overston Height classes: 01= Species, Stratum, a	"dbh), <u>T2</u> (1-6" dbh), g (<3 yr. old), <u>S2</u> you y "plant ht.), <u>H2</u> (> ry Tree Conifer/Har erstory Conifer/Har =<1/2m 02=1/2-1m	ng <1% dead), S3 -12" ht.) rdwood:/ dwood:/ 03=1-2m 04=2-51 m categories: T=	Mature (1- M Non Low Low m 05=5-10 Overstory	25% dead), <u>S4</u> decadent (>25% dead) 1-Vasc cover: / <u>Total % Vasc Veg cov</u> 1-Medium Tree: Shrub: <u>SP</u> Herbaceous: 2 1-Medium Tree: Shrub: <u>OS</u> Her	er: 201 21 01 0=>50m -vascular.	0
Shrub: S1 seedling Herbaceous: H1 (< Cover - Overston Height Class - Over Height classes: 01= Species, Stratum, a Cover intervals for	"dbh), T2 (1-6"dbh), (<3 yr. old), S2 your (12" plant ht.), H2 (> ry Tree Conifer/Har erstory Conifer/Har =<1/2m 02=1/2-1m	ng/<1% dead), S3 -12" ht.) rdwood:/ dwood:/ 03=1-2m 04=2-51 m categories: T= %, >5-15%, >15-25	Mature (1- Mon Low Low m 05=5-10 Overstory %, >25-50%	25% dead), <u>S4</u> decadent (>25% dead) 1-Vasc cover: / <u>Total % Vasc Veg cov</u> 1-Medium Tree: Shrub: <u>SP</u> Herbaceous: 2 1-Medium Tree: Shrub: <u>OS</u> Her	er: 20 21 01 0=>50m	0
Shrub: S1 seedling Herbaceous: H1 (- % Cover - Overstor Height Class - Overstor Height classes: 01= Species, Stratum, a % cover intervals for trata Species	"dbh), T2 (1-6" dbh), (<3 yr. old), S2 your y Tree Conifer/Har erstory Conifer/Har =<1/2m 02=1/2-1m and % cover. Stratu r reference: <1%, 1-5	ng/<1% dead), S2 -12" ht.) rdwood:/_ dwood:/_ 03=1-2m 04=2-51 m categories: T= %, >5-15%, >15-25'	Mature (1- Monute 1- Monute 1- Low Low Monute 1- Low Low Monute 1- Low Low Monute 1- Low Low Monute 1- Low Low Low Monute 1- Low Low Low Monute 1- Low Low Low Low Low Low Low Lo	25% dead), <u>S4</u> decadent (>25% dead) 1-Vasc cover: / <u>Total % Vasc Veg coverset Shrub: 20 Herbaceous: 4 Herbaceous: 4 Herbaceous: 4 Herbaceous: 4 Herbaceous: 4 Herbaceous: 4 Herbaceous: 5 Herbaceous: 6 Herbaceous: 6 Herbaceous: 6 Herbaceous: 6 Herbaceous: 6 Herbaceous: 7 Herbaceous: 6 Herbaceous: 7 Herbaceous: 6 Herbaceous: 7 Herbaceou</u>	er: 8 2/ 0/ 0=>50m -vascular.	0
Shrub: S1 seedling Herbaceous: M1 (- % Cover - Overstoi Height Class - Ove Height classes: 01= Species, Stratum, a % cover intervals for trata Species	"dbh), T2 (1-6" dbh), (<3 yr. old), S2 your "plant ht.), H2 (> ry Tree Conifer/Har erstory Conifer/Har =<1/2m 02=1/2-1m and % cover. Stratu ar reference: <1%, 1-5	12" ht.) rdwood:	Mature (1- Mon Low Low m 05=5-10 Overstory %, >25-50%	25% dead), <u>S4</u> decadent (>25% dead) 1-Vasc cover: / <u>Total % Vasc Veg coverset Shrub: SP Herbaceous: Medium Tree: Shrub: DB Herbaceous: Medium Tree: Shrub: Medium Tree: Shrub: Medium Tree: Medium Tree: Shrub: Medium Tree: Shrub: Medium Tree: Medium Tree: Shrub: Medium Tree: Medium Tree: Shrub: Medium Tree: Shrub: Medium Tree: Medium Tree: Shrub: Medium Tree: Shrub: Medium Tree: Shrub: Medium Tree: Medium Tree: Medium Tree: Shrub: Medium Tree: Medium Tree: Medium Tree: Shrub: Medium Tree: Medium Tree</u>		0
Shrub: S1 seedling Herbaceous: H1 (4) Cover -Overston Height Class - Ove Height classes: 01= Species, Stratum, a Cover intervals for Tata Species S BACL	"dbh), T2 (1-6" dbh), (<3 yr. old), (S2 your old), (H2 (>2 your old), (H2 (>2 your old)), (H2 (>2 your old	ng (<1% dead), S3 -12" ht.) -12" ht.) -13" ht.) -14 dwood: /_ 03=1-2m 04=2-5 -15", >5-15%, >15-25" -15" of the control of the	Mature (1- % Non Low m 05=5-10 Overstory %, >25-50% 6 cover C	1-Vasc cover:	er: 20/ 0/ 0=>50m -vascular. % cover	0
Shrub: S1 seedling Herbaceous: M1 (- % Cover - Overstor Height Class - Ove Height classes: 01= Species, Stratum, a % cover intervals for rata Species S Artem S BACCI H MOLA	"dbh), T2 (1-6" dbh), (<3 yr. old), S2 your (12" plant ht.), H2 (> ry Tree Conifer/Har erstory Conifer/Har ex-1/2m 02=1/2-1m and % cover. Stratu ar reference: <1%, 1-5	ng(<1% dead), S3 -12" ht.) rdwood:/_ dwood:/_ 03=1-2m 04=2-51 m categories: T= %, >5-15%, >15-250	Mature (1- % Non Low Low m 05=5-10 Overstory %, >25-50% 6 cover C	1-25% dead), S4 decadent (>25% dead) 1-25% dead) 1-25% dead) 1-25% dead	er: 20/ 0/ 0=>50m -vascular. % cover 2/ 2/	0
Shrub: S1 seedling Herbaceous: H1 (- % Cover - Overstor Height Class - Overstor Height classes: 01= Species, Stratum, a % cover intervals for trata Species S Artem S BACCA H MCA	"dbh), T2 (1-6" dbh), (<3 yr. old), S2 your (3" plant ht.), H2 (> ry Tree Conifer/Har erstory Conifer/Har erstory Conifer/Har and % cover. Stratu er reference: <1%, 1-5	ng (<1% dead), S3 -12" ht.) rdwood:/_ dwood:/_ 03=1-2m 04=2-5i m categories: T= %, >5-15%, >15-25' Or nick	Mature (1-	-25% dead), S4 decadent (>25% dead)		0
Shrub: S1 seedling Herbaceous: H1 (- % Cover - Overstol Height Class - Ove Height classes: 01= Species, Stratum, a % cover intervals for trata Species S Artem S BACCA H MOCA H Araga H GAM	"dbh), T2 (1-6" dbh), (<3 yr. old), S2 you y Tree Conifer/Har erstory Conifer/Har erst	12" ht.) rdwood:	Mature (1- Mon Low Low m 05=5-10 Overstory %, >25-50% 6 cover C 75 /	-25% dead), S4 decadent (>25% dead)	% cover 2/ 2/ 2/ 2/ 2/ 2/ 2/ 2/ 2/ 2/ 2/ 2/ 2/	0
Shrub: S1 seedling Herbaceous: M1 (- % Cover -Overstor Height Class - Ove Height classes: 01= Species, Stratum, a % cover intervals for trata Species S	"dbh), T2 (1-6" dbh), (<3 yr. old), S2 your (12" plant ht.), H2 (> ry Tree Conifer/Har (12m 02=1/2-1m) (14m 06 cover. Stratum reference: <1%, 1-5 (15m 15m 16m 16m 16m) (15m 16m 16m 16m) (15m	ng(<1% dead), S2 -12" ht.) rdwood: / dwood: / 03=1-2m 04=2-51 m categories: T= %, >5-15%, >15-250 // On S // O	Mature (1-	-25% dead), S4 decadent (>25% dead)		0
Shrub: S1 seedling Herbaceous: M1 (- % Cover - Overstor Height Class - Ove Height classes: 01= Species, Stratum, a % cover intervals for grata Species S Artem S BACCO H MORA H Arage H Graph S Jane	"dbh), T2 (1-6" dbh), (<3 yr. old), S2 your (12" plant ht.), H2 (> ry Tree Conifer/Har (<1/2m 02=1/2-1m (and % cover. Stratum (reference: <1%, 1-5 (14)	ng(<1% dead), S3 -12" ht.) rdwood:/_ dwood:/_ 03=1-2m 04=2-51 m categories: T= %, >5-15%, >15-250 \[\frac{1}{2}\llowrightarrow \]	Mature (1-	25% dead), S4 decadent (>25% dead) 1-Vasc cover: / Total % Vasc Veg cov -Medium Tree: Shrub: 80 Herbaceous: 4 -Medium Tree: Shrub: 03 Herbaceous: 4 -Medium Tree: Shrub: 08=20-35m 09=35-50m 10		0
Shrub: S1 seedling Herbaceous: H1 (- % Cover - Overstor Height Class - Overstor Height classes: 01= Species, Stratum, a % cover intervals for trata Species S Artem S BACCA H MORA H GARA H GARA S JAINA	"dbh), T2 (1-6" dbh), (<3 yr. old), S2 your (<3 yr. old), S2 your (y Tree Conifer/Har erstory Conifer/Har extory Conifer/Har extra 02=1/2-1m and % cover. Stratu extreference: <1%, 1-5 (A SIA COLLA A	ng(<1% dead), S3 -12" ht.) rdwood:/_ dwood:/_ 03=1-2m 04=2-5i m categories: T= %, >5-15%, >15-25' \[\text{Or nich} \] \[\text{Vlans} \]	Mature (1-	-25% dead), S4 decadent (>25% dead)		0
Shrub: S1 seedling Herbaceous: M1 (- % Cover - Overstor Height Class - Ove Height classes: 01= Species, Stratum, a % cover intervals for rata Species S Artem S BACCO H MORA H Anagh H Graph S Ja Inagh H Oran	"dbh), T2 (1-6" dbh), (<3 yr. old), S2 your (12" plant ht.), H2 (> ry Tree Conifer/Har (<1/2m 02=1/2-1m (and % cover. Stratum (reference: <1%, 1-5 (14)	ng(<1% dead), S3 -12" ht.) rdwood:/_ dwood:/_ 03=1-2m 04=2-5i m categories: T= %, >5-15%, >15-25' \[\text{Or nich} \] \[\text{Vlans} \]	Mature (1-	25% dead), S4 decadent (>25% dead) 1-Vasc cover: / Total % Vasc Veg cov -Medium Tree: Shrub: 80 Herbaceous: 4 -Medium Tree: Shrub: 03 Herbaceous: 4 -Medium Tree: Shrub: 08=20-35m 09=35-50m 10		00
Shrub: S1 seedling Herbaceous: M1 (- % Cover - Overstor Height Class - Overstor Height classes: 01= Species, Stratum, a % cover intervals for rata Species S Artem S BACCA H MOCA H Anal H GAL	"dbh), T2 (1-6" dbh), (<3 yr. old), S2 your (3" plant ht.), H2 (> ry Tree Conifer/Har erstory Conifer/Har extory Conifer/Har (x-1/2m 02=1/2-1m and % cover. Stratu ar reference: <1%, 1-5 (A SIA COLL) (A NOTE OF A SIA COLL)	ng(<1% dead), S3 -12" ht.) rdwood:/_ dwood:/_ 03=1-2m 04=2-5i m categories: T= %, >5-15%, >15-25' \[\text{Or nich} \] \[\text{Vlans} \]	Mature (1-	25% dead), S4 decadent (>25% dead) 1-Vasc cover: / Total % Vasc Veg cov -Medium Tree: Shrub: 80 Herbaceous: 4 -Medium Tree: Shrub: 03 Herbaceous: 4 -Medium Tree: Shrub: 08=20-35m 09=35-50m 10		00
Shrub: S1 seedling Herbaceous: M1 (- % Cover - Overstor Height Class - Overstor Height classes: 01= Species, Stratum, a % cover intervals for rata Species S Artem S BACCA H MOCA H Anal H GAL	"dbh), T2 (1-6" dbh), (<3 yr. old), S2 your (<3 yr. old), S2 your (y Tree Conifer/Har erstory Conifer/Har extory Conifer/Har extra 02=1/2-1m and % cover. Stratu extreference: <1%, 1-5 (A SIA COLLA A	ng(<1% dead), S3 -12" ht.) rdwood:/_ dwood:/_ 03=1-2m 04=2-5i m categories: T= %, >5-15%, >15-25' \[\text{Or nich} \] \[\text{Vlans} \]	Mature (1-	25% dead), S4 decadent (>25% dead) 1-Vasc cover: / Total % Vasc Veg cov -Medium Tree: Shrub: 80 Herbaceous: 4 -Medium Tree: Shrub: 03 Herbaceous: 4 -Medium Tree: Shrub: 08=20-35m 09=35-50m 10		00
Shrub: S1 seedling Herbaceous: M1 (- % Cover - Overstor Height Class - Overstor Height Class - Overstor Height Class - Overstor Height Class - Overstor Species, Stratum, a % cover intervals for trata Species S Artem S BACCA H WOA H Graph S JA MA H GRAPH	"dbh), T2 (1-6" dbh), (3 yr. old), S2 your (12" plant ht.), H2 (> ry Tree Conifer/Har erstory Conifer/Har (1/2m 02=1/2-1m) (1md % cover. Stratu (1 reference: <1%, 1-5 (1 SIA COLL) (1 PARIO COLL) (2 ALL) OVER (2 ALL) OVER (3 ALL) OVER (4 ALL) OVER (5 ALL) OVER (5 ALL) OVER (6 ALL) OVER (7 ALL) OVER (7 ALL) OVER (8 A	ng(<1% dead), S3 12" ht.) rdwood: // dwood: // 03=1-2m 04=2-5 m categories: T= %, >5-15%, >15-25 EVALUATION ALICEUM A	Mature (1-	25% dead), S4 decadent (>25% dead) 1-Vasc cover: / Total % Vasc Veg cov -Medium Tree: Shrub: 80 Herbaceous: 4 -Medium Tree: Shrub: 03 Herbaceous: 4 -Medium Tree: Shrub: 08=20-35m 09=35-50m 10		0
Shrub: S1 seedling Herbaceous: M1 (- % Cover - Overstol Height Class - Ove Height classes: 01= Species, Stratum, a % cover intervals for trata Species S Artem S BACC H Mara H Arag H Carp S Ja Ing S Jo Ba Unusual species: [III. INTERPRETA]	"dbh), T2 (1-6" dbh), (3 yr. old), S2 your (3 yr. old), S2 your (4 yr. Tree Conifer/Har (5 yr. or Conifer/Har (5 yr. or Conifer/Har (6 yr. or Conifer/Har (7 yr. or Conifer/Har (8 yr. or Conifer/Har (9 yr. or Conifer/Har	ng(<1% dead), S3 -12" ht.) rdwood:/_ dwood:/_ 03=1-2m 04=2-5i m categories: T= %, >5-15%, >15-25' \(\frac{\text{Or nich}}{\text{Constant}}\) \(\frac{\text{Constant}}{\text{Constant}}\) \(\frac{\text{Or nich}}{\text{Constant}}\) \(\frac{\text{Constant}}{\text{Constant}}\)	Mature (1-9% Non Low Low Low Mature Coverstory Covers Cover Cover	25% dead), S4 decadent (>25% dead) I-Vasc cover: / Total % Vasc Veg cov -Medium Tree: Shrub: BB Herbaceous: Shrub: D3 Herbaceous: Marchan Medium Tree: Shrub: D3 Herbaceous: Marchan Medium Tree: Shrub: D3 Herbaceous: Marchan Medium Tree: Shrub: Merbaceous: Marchan Merbaceous: Marchan Merbaceous: Marchan Merbaceous:		0
Shrub: S1 seedling Herbaceous: M1 (% Cover - Overstor Height Class - Overstor Height Class - Overstor Height Class - Overstor Species, Stratum, a % cover intervals for trata Species S	"dbh), T2 (1-6" dbh), (3 yr. old), S2 your (12" plant ht.), H2 (> ry Tree Conifer/Har (-1/2m 02=1/2-1m) (1/2m 02=1/2-1m) (1/	ng(<1% dead), S3 -12" ht.) rdwood:/_ dwood:/_ 03=1-2m 04=2-5 m categories: T= %, >5-15%, >15-25 \(\frac{\fr	Mature (1-	25% dead), S4 decadent (>25% dead) 1-Vasc cover: / Total % Vasc Veg cov -Medium Tree: Shrub: 80 Herbaceous: 4 -Medium Tree: Shrub: 03 Herbaceous: 4 -Medium Tree: Shrub: 08=20-35m 09=35-50m 10		00
Shrub: S1 seedling Herbaceous: H1 (- % Cover - Overstoi Height Class - Overstoi Height Classes: 01= Species, Stratum, a % cover intervals for trata Species S	"dbh), T2 (1-6" dbh), (<3 yr. old), S2 your (<3 yr. old), S2 your (x) Tree Conifer/Har (x) Tree Conifer/Har (x) Cover. Stratu (x) reference: <1%, 1-5 (x) SIA CO/I f (x) SI	ng (<1% dead), S3 -12" ht.) rdwood:/_ dwood:/_ 03=1-2m 04=2-5i m categories: T= %, >5-15%, >15-25' \[\text{Or nich} \] \[\text{Vlans} \	3 mature (1- 96 Non Low Low m 05=5-10 Overstory %, >25-50% 6 cover C	25% dead), S4 decadent (>25% dead) I-Vasc cover: / Total % Vasc Veg cov -Medium Tree: Shrub: BB Herbaceous: Amodelium Tree: Shrub: BB Herbaceous: Medium Tree: Shrub: Medium Shr		0
Shrub: S1 seedling Herbaceous: H1 (- % Cover - Overstoi Height Class - Overstoi Species, Stratum, a % cover intervals for trata Species S	"dbh), T2 (1-6" dbh), (3 yr. old), S2 your (12" plant ht.), H2 (> ry Tree Conifer/Har (-1/2m 02=1/2-1m) (1/2m 02=1/2-1m) (1/	ng (<1% dead), S3 -12" ht.) rdwood:/_ dwood:/_ 03=1-2m 04=2-5i m categories: T= %, >5-15%, >15-25' \[\text{Or nich} \] \[\text{Vlans} \	3 mature (1- 96 Non Low Low m 05=5-10 Overstory %, >25-50% 6 cover C	25% dead), S4 decadent (>25% dead) I-Vasc cover: / Total % Vasc Veg cov -Medium Tree: Shrub: BB Herbaceous: Amodelium Tree: Shrub: BB Herbaceous: Medium Tree: Shrub: Medium Shr		0
Shrub: S1 seedling Herbaceous: H1 (- % Cover - Overstoi Height Class - Overstoi Height Classes: 01= Species, Stratum, a % cover intervals for the second series S	"dbh), T2 (1-6" dbh), (3 yr. old), S2 your (12" plant ht.), H2 (> ry Tree Conifer/Har erstory Conifer/Har extry Conifer/Har (1/2m 02=1/2-1m and % cover. Stratu ar reference: <1%, 1-5 (1/2m 1/2m 1/2m and 1/2m a	ng(<1% dead), S3 12" ht.) rdwood:/_ dwood:/_ 03=1-2m 04=2-5 m categories: T= %, >5-15%, >15-25 \(\text{Ornich}\)	Mature (1-	25% dead), S4 decadent (>25% dead) I-Vasc cover: / Total % Vasc Veg cov -Medium Tree: Shrub: BB Herbaceous: Amodelium Tree: Shrub: BB Herbaceous: Medium Tree: Shrub: Medium Shr		00

Poinsettia Park - SWS

CNPS and CDFG Combined Vegetation Rapid Assessment and Relevé Field Form

For Office Use:					
31100 030	Final database #:	Final vegetation		Alliance	
I. LOCATIONAL	/ENVIRONMENTAL			ASSOCIACION	
Polygon/Stand #:	Air photo:	Date:		of surveyors (circle recorder):	
PPOZ		6.28.10	(1. VINIC , toodiff. to	get to
GPS wypt #: <u>////</u>	GPS name: Gen I	Satum: or !	NAD83, Bea	uring, left axis at SW pt <u>2/8</u> (degrees) of <u>Long / Sh</u>	nort side
UTME <u>4 7 /</u>	// 4.44^/UTI	MN 366		2./9 Zone: 10/11 circle one) Error: ±/ ft	
GPS within stand	Yes (No) If No, o	cite from waypoir OCNUC IS CLOS	nt to stand, d	listance (meters) & bearing (degrees)	min
Elevation: //	ft/m Camera Na	me/Photograph #	#'s:	direction of: 319	5.W.
				1000 Plot Shape <u>70</u> x <u>40</u> ft /m or Circle Radius	
Exposure, Actual				All Steepness, Actual °: 0° 1-5° 5-25	5° > 25°
Topography: Mac Geology code:		mid (lower) b sture code:		Micro: convex flat concave indulating Upland or Wetland/Riparian (circle one)	
	<i>@</i>	(Incl. outcrops) (>	>60cm diam)	Stone: Cobble: Gravel: Fines: 5 (25-60cm) (7.5-25cm) (2mm-7.5cm) (Incl sand, r	=100% mud)
Site history, stand	age, comments:	Riponian	- SOU	rem willow somber mixed	1
forest.	Partiens of	Trus plot	indu	de a restoration site. The	ere
are old	pines + 100	aanon 1	reads 1.	resent. Heral, deep a ully lo	akd
in the p	lot. Likely	Comes h	to du	ing rain events. No H20 p	rsent
	turbance codes:		/		
I. HABITAT AN	D VEGETATION DE	SCRIPTION			
N.	J. LODINITO I DI	ZOCKH HOIT		-	
Tree DBH : <u>T1</u> (<	1" dbh), <u>T2</u> (1-6" dbh),	<u>T3</u> (6-11" dbh), <u>T</u> 4		(T3 or T4 layer under T5,	>60% cover)
Tree DBH : <u>T1</u> (<1 Shrub: <u>S1</u> seedling	" dbh), <u>T2</u> (1-6" dbh), <u>1</u> g (<3 yr. old), <u>\$2</u> youn	<u>T3</u> (6-11" dbh), <u>T4</u> ag (<1% dead), <u>S3</u>		% dead), <u>S4</u> decadent (>25% dead)	
Tree DBH : <u>T1</u> (< Shrub: <u>S1</u> seedlin Herbaceous: <u>H1</u> (1" dbh), <u>T2</u> (1-6" dbh), g (<3 yr. old), <u>\$2</u> youn <12" plant ht.), <u>H2</u> >1	T3 (6-11" dbh), T4 g (<1% dead), S3 12" ht.)	mature (1-259	(sead), S4 decadent (>25% dead) (asc cover: 2 / Total % Vasc Veg cover	150- er: 200
Tree DBH: <u>T1</u> (< Shrub: <u>S1</u> seedling Herbaceous: <u>H1</u> (" dbh), <u>T2</u> (1-6" dbh), <u>1</u> g (<3 yr. old), <u>\$2</u> oun <12" plant ht.), <u>H2</u> >1 ory Tree Conifer/Hard	T3 (6-11" dbh), T4 ng (<1% dead), S3 12" ht.) dwood:/>	mature (1-259 <u>% Non-V</u> <u>### Low-M</u>	dead), <u>S4</u> decadent (>25% dead) asc cover: <u>//</u> <u>Total % Vasc Veg coveredium Tree: //// Shrub: <u>30</u> Herbaceous: _/</u>	r: 200
Free DBH: <u>T1</u> (< Shrub: <u>S1</u> seedlin Herbaceous: <u>H1</u> (<u>% Cover</u> -Oversto <u>Height Class</u> - Ov	" dbh), T2 (1-6" dbh), g (<3 yr. old), 22 youn <12" plant ht.), H2 >1 ory Tree Conifer/Harderstory Conifer/Hard	T3 (6-11" dbh), T4 g (<1% dead), S3 12" ht.) dwood:/ _2 dwood:/ _/	mature (1-259 <u>% Non-V</u> > 90 Low-M <u>0 9</u> Low-M	A dead), S4 decadent (>25% dead) asc cover: \(\(\frac{1}{2} \) \) Total % Vasc Veg cove edium Tree: \(\frac{100}{27} \) Shrub: \(\frac{30}{26} \) Herbaceous: \(\frac{1}{2} \)	150- 10 01
Tree DBH: T1 (<) Shrub: S1 seedling Herbaceous: H1 (Cover - Oversto Height Class - Ov Height classes: 01	" dbh), <u>T2</u> (1-6" dbh), g (<3 yr. old), <u>\$2</u> youn <12" plant ht.), <u>H2</u> >1 ory Tree Conifer/Harderstory Conifer/Harder=<1/2m 02=1/2-1m 0	T3 (6-11" dbh), T4 ng (<1% dead), S3 12" ht.) dwood: /> 13=1-2m 04=2-5m	mature (1-25% % Non-V % Cow-M % Low-M 0 5=5-10m	Masc cover: Z Total % Vasc Veg cover: Z Total % Vasc Veg cover: Z Shrub: 30 Herbaceous: Z Herbaceous: 20 Herbaceous: 2	er: 200 10 01 =>50m
Free DBH: T1 (<) Shrub: S1 seedling Herbaceous: H1 (<) Cover - Oversto Height Class - Oversto Height classes: 01- Species, Stratum,	"dbh), T2 (1-6" dbh), g (<3 yr. old), 22 youn <12" plant ht.), H2 (>1 ory Tree Conifer/Harderstory Conifer/Harders1/2m 02=1/2-1m 0 and % cover. Stratun	T3 (6-11" dbh), T4 ng (<1% dead), S3 12" ht.) dwood: // 13=1-2m 04=2-5m n categories: T= (mature (1-25% Non-V Dow-M Dow-M Dow-M 05=5-10m Overstory tree	S4 decadent (>25% dead) S4 decadent (>25% dead) S6 dead S7 S8 S8 S8 S8 S8 S8 S8	er: 200 10 01 =>50m
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Free DBH: T1 (< Shrub: S1 seedling Herbaceous: H1 (< Shrub: S1 seedling Herbaceous: H2 (< Shrub: Species Sp	"dbh), T2 (1-6" dbh), g (<3 yr. old), 22 youn <12" plant ht.), H2 (>1 ory Tree Conifer/Harderstory Conifer/Harders1/2m 02=1/2-1m 0 and % cover. Stratum	T3 (6-11" dbh), T4 g (<1% dead), S3 12" ht.) dwood: /> d3=1-2m 04=2-5m n categories: T= 0 6, >5-15%, >15-25%	mature (1-259 <u>% Non-V</u> <u>** PO Low-M</u> ** O Low-M ** O D Low-M ** O D D D D D D D D D D D D D D D D D D	A dead), S4 decadent (>25% dead) Asc cover: 2 Total % Vasc Veg coveredium Tree: 100 Shrub: 30 Herbaceous: 4 A decadent (>25% dead) B decadent (>25% dead) A decadent (>25% dead) A decadent (>25% dead) B decadent (>2	/50- /0 /0 /0 />>50m vascular.
Free DBH: T1 (<) Shrub: S1 seedling Herbaceous: H1 (<) Cover - Oversto Height Class - Oversto Height classes: 01: Species, Stratum, Cover intervals for	a" dbh), T2 (1-6" dbh), g (<3 yr. old), \$\frac{\sigma2}{2}\text{youn} \text{voun} \text{2" plant ht.}, \frac{\frac	T3 (6-11" dbh), T4 ng (<1% dead), S3 12" ht.) dwood: // 03=1-2m 04=2-5m n categories: T= 0 6, >5-15%, >15-25%	mature (1-25% % Non-V % Non-V % Low-M 0 7 Low-M n 05=5-10m Overstory tree %, >25-50%, >5 cover C Str	A dead), S4 decadent (>25% dead) (asc cover: 4 Total % Vasc Veg coveredium Tree: 100 Shrub: 30 Herbaceous: 400 Herbaceous: 40	
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Field-assessed assertling	ary dbh), T2 (1-6" dbh), 12 (1-6" dbh), 12 (1-6" dbh), 12 (1-6" dbh), 13 (1-6" dbh), 14 (1-6" dbh), 15 (1-6" db	T3 (6-11" dbh), T4 ng (<1% dead), S3 12" ht.) dwood: // display display display dead 12" ht.) dwood: // display display display display no categories: T= (%, >5-15%, >15-25%) Solida S	mature (1-259 % Non-V P Low-M 0 7 Low-M 0 05=5-10m Overstory tree 6, >25-50%, >5 cover C Str 2	A dead), S4 decadent (>25% dead) (asc cover: 2/ Total % Vasc Veg coveredium Tree: 100 Shrub: 30 Herbaceous: 100 Herbaceous: 1	
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RELEVE SPECIES SHEET (Revised 9/10/09)

Page Z	of Polygon/Stand #:	PPUZ

Stratum categories: T = Overstory tree, U = Understory tree, S = Shrub, H = Herb, and N=Non-vascular **% Cover Intervals for reference:** <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-75%, >75%

Strata	Vascular plant name or lichen/bryophyte	% Cover	Collection	Final species determination
Н	Bromus maditansis ssp. nibons	, 41		
N	MISS	4		
Н	lonuza sio.	4		
Н	Fornias lum Vulgare	41		* 2
H	MOSS Lonyza spp. Foznicu lum Vulgare Rephonus sativus	41		
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La Costa/ Romana St. - CSS

CNPS and CDFG Combined Vegetation Rapid Assessment and Relevé Field Form Relevé or Rapid Assessment (Circle One) (Revised Sept 10, 2009) Final vegetation type For Office Use: Final database #: Alliance name: Association I. LOCATIONAL/ENVIRONMENTAL DESCRIPTION Polygon/Stand #: Name(s) of surveyors (circle recorder): Air photo: Date: LCROI П or NAD83.) Bearing, left axis at SW pt_B (degrees) of Long) Short side GPS wypt #: LERGPS name: To mble Datum: VTMN 3660685 Zone: 10/11/circle one) Error: ± 4/ ft/m) pdop П GPS within stand? Yes / No If No, cite from waypoint to stand, distance (meters) & bearing (degrees) Elevation: /4.3 (ft)/m Camera Name/Photograph #'s: Stand Size (acres): <1, (1-5), >5 | Plot Size (m²): 10 / 100 / 400 / 1000 | Plot Shape / 5 x 25 ft /m) or Circle Radius Exposure, Actual °: /// NE NW (SE) SW Flat Variable /All | Steepness, Actual °: Z / 0° 1-5° (5-25) Topography: Macro: top upper (nit) lower bottom | Micro: (convex) flat concave undulating Geology code: Soil Texture code: Upland or Wetland/Riparian (circle one) П % Surface cover H20: O BA Stems: 5 Litter: 50 Bedrock: 6 Boulder: Stone: Cobble: Gravel: 2 Fines: 43 = 100%

(Incl. outcrops) (>60cm diam) (25-60cm) (7.5-25cm) (2mm-7.5cm) (Incl sand, mud)

W Current year bioturbation 41 Past bioturbation present? Y N Hoof punch Coastal Spal scrib in fragmented hobite Site history, stand age, comments: П Good hobitat w/little distributile scasan to observe all an-site Type/ Level of disturbance codes: "Other" II. HABITAT AND VEGETATION DESCRIPTION Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" dbh), T4 (11-24" dbh), T5 (>24" dbh), T6 multi-layered (T3 or T4 layer under T5, >60% cover) Shrub: S1 seedling (<3 yr. old), (S2) oung (<1% dead), S3 mature (1-25% dead), S4 decadent (>25% dead) Total % Vasc Veg cover: 150 Herbaceous: (12" plant ht.), H2 (>12" ht.) % Non-Vasc cover: % Cover -Overstory Tree Conifer/Hardwood: ___/__ Low-Medium Tree: ___ Shrub: \(\sqrt{50} \) Herbaceous: \(\sqrt{-1} \) П Height Class - Overstory Conifer/Hardwood: ___/ Low-Medium Tree: ___ Shrub: 03 Herbaceous: ___/__ Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2-5m 05=5-10m 06=10-15m 07=15-20m 08=20-35m 09=35-50m 10=>50m Species, Stratum, and % cover. Stratum categories: T= Overstory tree, U= Understory Tree, S = Shrub, H= Herb, N= Non-vascular. % cover intervals for reference: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-75%, 75%. Strata Species % cover C Strata Species % cover C Encelin californica 80 2 5 Salvia melli fera 10 Excorpto chrysontremitolia 20 Enophyllum contestitolium Nassella Icaida H 41 sonchisoleraceus 41 H 4 Actemisia californica 10 regallis anensis Heterome 45 or but tolla 61 Bacchens pilulans 5 2 ISOCOMO MEDZICSII 4 lentavica nelitensis adolphia colifornica Unusual species: III. INTERPRETATION OF STAND Field-assessed vegetation alliance name: Field-assessed association name (optional): Adjacent alliances: П Confidence in alliance identification: L M H **Explain:** Phenology (E,P,L): Herb Shrub Tree Other identification or mapping information:

La Costa Conym Pk - C5S

CNPS and CDFG Combined Vegetation Rapid Assessment and Relevé Field Form

(Revised Sept 10, 2000)

Keleve or Kapia	Assessment (Circle	One) (Revise	ed Sept 10, 20	707)	Description of the second
For Office Use:	Final database #:	Final vegetation ty	(교육) 전기 시간 내용된 다 있다면서 있다.		
LICCATIONAL	 'ENVIRONMENTAI	name:	Asso	ciation	
I. LOCATIONAL/ Polygon/Stand #:			Name(s) of s	surveyors (circle recorder):	
LCCPOI	7 photo.	2.17.10		Vinje	
CDS 1. 1.661	Pala Trim	ble		g, left axis at SW pt (degrees) of Long / Shor	
GPS wypt #:	GPS name: Gw D	atum: or NAD	83. Bearing	g, left axis at SW pt (degrees) of <u>Long / Shor</u>	rt side
UTME 6 2 :	5 7 420 Turn	MN 1778	109	Zone: 10 /(1) circle one) Error: ± // ft //	n) pdop
	_	ite from waypoint to		nce(meters) & bearing(degrees)	
	ft) m Camera Na			1 N 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
				Plot Shape <u>70</u> x <u>70</u> ft mor Circle Radius_	ft/m
				Steepness, Actual °: /5 - 300° 1-5° 5-25°	(> 25)
Topography: Macı Coology goda:		mid lower botton			
Geology code:	Soil Text	ture code:	(Upland or Wetland/Riparian (circle one)	
% Surface cover H20: <u> </u>		(Incl. outcrops) (>60cm	diam) (25-	ne: 25 Cobble: 16 Gravel: 25 Fines: 9 60cm) (7.5-25cm) (2mm-7.5cm) (Incl sand, muc)	=100% d)
Site history, stand		,	•	The 1997 Harmany Grove	
Brb. H	,	ed nialy.		low levels of nonnative	
010 5865		Stand has			
. / / / .	• • • •	Nbs. but a			stuk
Type/ Level of dist			1		
II. HABITAT AND	VEGETATION DE	SCRIPTION			
Tree DBH : T1 (<1'	" dbh), T2 (1-6" dbh)	ГЗ (6-11" dbh). Т4 (11-	24" dbh) T5	(>24" dbh), T6 multi-layered (T3 or T4 layer under T5, >60	0% cover)
				ad), <u>S4</u> decadent (>25% dead)	
				cover: ∠/ Total % Vasc Veg cover:	41
				Im Tree: Shrub: 10 Herbaceous: 2	91
				ım Tree: Shrub: 03 Herbaceous: 0	1
				10-15m 07=15-20m 08=20-35m 09=35-50m 10=>	1
				= Understory Tree, S = Shrub, H= Herb, N= Non-vas	
% cover intervals fo		6, >5-15%, >15-25%, >25		5%, 75%.	
trata Species			r C Strata		cover C
S Dalu	ra melli fere	a 80	Н	I'm pochaens alchra	41
S Arto	misia cali	Pornica 2	H	Courtentna SSp. L'intermedia	121
H Brasi	rica mara	4	H	Dinangra Pasciculata	41
# Dich	Justima re	pitatum ul	H	Intavia melitarsis	41
S Backh	end pilula	ens 21	H	Bromer madnitansis nibens	4
S ado,	1.4.0 0016	Binica 5	H	morah macmocarous	4
H MAS	DOUR LALIN	1.	H	Buthno chlva barbinodis	11
	rsella lepid	da 2			,
S mola ac	SCHA Upid Mannista	cicularis 1	H	Caly stegia macoskaja	4
	SSIIA Upid Mampis fas num Pascicu	reiculatus !	H 3	Caly stegia macoshgia molosma laurna	1
S molaco S Enogo	SSE LLA LE PLA THAMPUS FAS NUM PASCICUL A DO LAMA	ocialatis 1	H 3	Calystegia macostegia prolosma laurina Bothnochloa berbinodi	1 5
S mola ao S En ego. Unusual species:	SSELLA LEPID THAMPIS FAS THUM PASCICUL AD PMA THON OF STAND	ocialates 1	H 3	Calystegia macoshgia molosma laurna Bothnochloa borbinoda	1 5
S mola and S En ego. Unusual species:		ciculatus ! Latam 10 California	H 3	Calystegia macoshgia molosma laurna Bothnochloa berbinode	1 5
S molo ac S En ego Unusual species: _ III. INTERPRETA Field-assessed vege	etation alliance name:	reiculatus ! Vatam 10 Californic	H 3 car	Calystegia macoskgia prolosma laurina Bothnochloa berbinodi	1 1 5
S molo and S En ego. Unusual species: III. INTERPRETA Field-assessed vege Field-assessed associations.	etation alliance name:	reiculatus ! Vatam 10 Californic	H 3 ca r	Calystegia macoshgia molosma laurna Bothnochloa berbinode	1
S molo and S En ego. Unusual species: III. INTERPRETA Field-assessed vege Field-assessed associations	etation alliance name:	reiculatus ! Vatam 10 Californic	H 3 2	Calystegia macoshgia molosma laurna Bothnochloa berbinode	1 5
S mole ac S En ego Unusual species: _ III. INTERPRETA Field-assessed vege Field-assessed asso Adjacent alliances:	etation alliance name:	Cicolates 1 Latam 10 California		Calystegia macoskgia prolosma laurina Bothnochloa berbinodi	1
S mala and S En ago. Unusual species: III. INTERPRETA Field-assessed vege Field-assessed associated assessed associated alliances: Confidence in alliances	ctation alliance name: ciation name (optiona	Aciculatus 1 La faun 10 A CALITOCALA A CALITOCALA BALLITOCALA BAL	:	Caly stegia macoshgia molosma laurna Bothniochloa berbinode nor mapping information:	1
S molo aconomics of the second species:	etation alliance name: ciation name (optiona : nce identification: L	Aciculatus 1 La faun 10 A CALITOCALA A CALITOCALA BALLITOCALA BAL	:	Caly stegia macoshgia prolosma laurna Bothniochloa berbinoda normapping information:	1
Inusual species: II. INTERPRETA ield-assessed vege ield-assessed asso djacent alliances:	etation alliance name: ciation name (optiona : nce identification: L	Aciculatus 1 La faun 10 A CALITOCALA A CALITOCALA BALLITOCALA BAL	:	Caly stegia macoskgia prolosma laurina Bothn ochloa berbinoda nor mapping information:	1

RELEVE SPECIES SHEET (Revised 9/10/09)

Page	て of Polygon/Stand #:	LCCPO
Page	of Polygon/Stand #:	0

Stratum categories: T = Overstory tree, U = Understory tree, S = Shrub, H = Herb, and N=Non-vascular **% Cover Intervals for reference:** <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-75%, >75%

Strata	Vascular plant name or lichen/bryophyte	% Cover	Collection	Final species determination
H	Galivm engustitolium	21		
	·			
-+				
_				

_		+		
			. ,,	
			F	
_				

CNPS and CDFG Combined Vegetation Rapid Assessment and Relevé Field Form
(Relevé or Rapid Assessment (Circle One) (Revised Sept 10, 2009)

For Office Use:	Final database #:	Final vegetation					_
LLOCATIONAL	 /ENVIRONMENTAI	name:	ASSO	ciation			-
Polygon/Stand #:			Name(s) of s	urveyors (circle reco	rder):		\neg
		xt. 29 2019	Patrices	Myrach - Myrach	0 . (_	
					enter of stern of Long/SI		
			,		cle one) Error: ± 35 ft	t / m / pd	00 0
					bearing(degrees)		_ [
	(f) m Camera Na					10-	
Stand Size (acres):	<1, (1-5), >5 Plot	Size (m ²): 10 / 100	0 / 400 / 100 0	Plot Shape x_	ft / m of Circle Radiu	d OTE	
						5° > 25	5° [
Topography: Mac Geology code:	ro: top upper Soil Tex				concave undulating Riparian (circle one)		
% Surface cover							-
		(Incl. outcrops) (>60c	cm diam) (25-	60cm) (7.5-25cm)	Gravel: Fines: 5 (2mm-7.5cm) (Incl sand,	=100° mud)	%
	ioturbation						_ -
Site history, stand	age, comments: G	Ps position Very late in	taluena Secson	trenter a	f plot No Rn	aure inter	dae c
CANS.			_400				
Type/ Level of dist	turbance codes: 23	12051			Other"		
II. HABITAT AN	D VEGETATION DE	SCRIPTION					
Tree DBH : T1 (<1	" dbh), T2 (1-6" dbh)	f3 /6-11" dbh), T4 (1	1-24" dbh), T5	(>24" dbh), T6 multi-l	ayered (T3 or T4 layer under T5,	, >60% cove	er)
	g (<3 yr. old), <u>S2 young</u>						
ł	and the same of th				Total % Vasc Veg cove	er: 49	
% Cover -Oversto	ry Tree Conifer/Hard	lwood: /	Low-Mediu	m Tree: 2.7 Shri	ub: ## Herbaceous: 2	12	_ _
Height Class - Ov	erstory Conifer/Hard	wood:/	_ _ Low-Mediu	m Tree: 04 Shr	ub: 0 3 Herbaceous: 0	72	
					08=20-35m 09=35-50m 10		-
Species, Stratum,	and % cover. Stratum	categories: T= Ove	erstory tree, U=	= Understory Tree, S =	Shrub, H= Herb, N= Non-	vascular.	
	or reference: <1%, 1-5%					% cover	
Strata Species			ver C Strata	^			
	choenUS Mur	stimus <1	Z H	Typha lat	Ifolia	3	
	noplectus a	difornicus 1	ZH			13	\vdash
and A is	granzolens	6	- 5		salici folice	21	\vdash
A Picris	Echiologs	- 1	17	Salix las	iolegis	27	\vdash
Hilnema	1				*		Н
N Pluche	e a oderata	41				-	\vdash
5 Ducch							H
1 501-26		×1 ×1					\vdash
	Scrib Selloc	Of I then					\dashv
Unusual species: _	ATION OF STAND						
III. IINTERFRETA	IIION OF STAIND		***************************************				_
	etation alliance name:						_ -
Field-assessed asso	ciation name (optiona	1):					_ -
Adjacent alliances				***************************************			_ 🗆
Confidence in allia	nce identification: L	M H Expla	in:				_ _
Phenology (E,P,L):	Herb L Shrub L	Tree_ Other	identification	or mapping inform	ation:		_ -
							_

Crossings Geit Course open space CNPS and CDFG Combined Vegetation Rapid Assessment and Relevé Field Form Relevé or Rapid Assessment (Circle One) (Revised Sept 10, 2009) Final vegetation type Alliance For Office Use: Final database #: name: Association I. LOCATIONAL/ENVIRONMENTAL DESCRIPTION Polygon/Stand #: Name(s) of surveyors (circle recorder): Air photo: Date: Southern Willowsenib JUST 29 2009 Katrice Mccornell or NAD83. Bearing, left axis at SW pt degrees) of Long / Short side GPS wypt #: 2 GPS name: Datum: 3 6 UTMN 3 Zone: 10 / 11 (circle one) Error: ± 3 ft / m / putop GPS within stand (Yes) No If No. cite from waypoint to stand, distance (meters) & bearing At/m Camera Name/Photograph #'s: No Stand Size (acres): <1, 1-5, >5 | Plot Size (m²): 10 / 100 / 400 / 4900, | Plot Shape x 2 oft/fit or Circle Radius ft/m NE NW SE SW Flap Variable All | Steepness. Actual °: \Box > 25° To Topography: Macro: top concave undulating upper mid lower bottom Micro: convex flat Geology code: Soil Texture code: Upland or Wetland Riparian (circle one) % Surface cover H20: BA Stems: 3 Litter: 60 Bedrock: Fines: 37 =100% Boulder: Stone: Cobble: Gravel: (Incl. outcrops) (>60cm diam) (25-60cm) (7.5-25cm) (2mm-7.5cm) (Incl sand, mud) Past bioturbation present? Y / N | % Hoof punch % Current year bioturbation П Site history, stand age, comments: vidence of invosive semosal5 40645 005+ VERY prior late in your to a conjugated Assertine ants very abundant Type/ Level of disturbance codes: 23/ 2 05/ 1 31/2 "Other" II. HABITAT AND VEGETATION DESCRIPTION Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" dbh), T4 (11-24" dbh), T5 (>24" dbh), T6 multi-layered (T3 or T4 layer under T5, >60% cover) Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead), S3 mature (1-25% dead), S4 decadent (>25% dead) % Non-Vasc cover: Herbaceous: <u>H1</u> (<12" plant ht.), <u>H2</u> (>12" ht.) Total % Vasc Veg cover: 5 6 % Cover -Overstory Tree Conifer/Hardwood: Low-Medium Tree: 52 Shrub: 3 Herbaceous: / Low-Medium Tree: 04 Shrub: 03 Herbaceous: 03 Height Class - Overstory Conifer/Hardwood: $Height\ classes:\ 01 = < 1/2 m\ \ 02 = 1/2 - 1 m\ \ 03 = 1 - 2 m\ \ 04 = 2 - 5 m\ \ 05 = 5 - 10 m\ \ 06 = 10 - 15 m\ \ 07 = 15 - 20 m\ \ 08 = 20 - 35 m\ \ 09 = 35 - 50 m\ \ 10 = > 50 m\ \ 08 = 20 - 35 m\ \ 09 = 35 - 50 m\ \ 08 = 20 - 35 m\ \ 09 = 35 - 50 m\ \ 08 = 20 - 35 m\ \ 09 = 35 - 50 m\ \ 09 = 35 - 50 m\ \ 08 = 20 - 35 m\ \ 09 = 35 - 50 m\ \ 09$ Species, Stratum, and % cover. Stratum categories: T= Overstory tree, U= Understory Tree, S = Shrub, H= Herb, N= Non-vascular. % cover intervals for reference: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-75%, 75%. Strata Species % cover C Strata Species % cover C H 41 Pluchen udorato 41 pagen monspeliensis 61 -7

Unusual species:

III. INTERPRETATION OF STAND

Field-assessed vegetation alliance name:

Field-assessed association name (optional):

Adjacent alliances: Site Surrounded by Organian restaurant

Confidence in alliance identification: L M H Explain:

Phenology (E.P.L.): Herb is Shrub in Tred. Other identification or mapping information:

Folyowing Interpretation intertified at home office.

Lane Calonera Upen apolis CNPS and CDFG Combined Vegetation Rapid Assessment and Relevé Field Form Relevé or Rapid Assessment (Circle One) (Revised Sept 10, 2009) Final vegetation type Alliance For Office Use: Final database #: name: Association I. LOCATIONAL/ENVIRONMENTAL DESCRIPTION Polygon/Stand #: Air photo: Date: Name(s) of surveyors (circle recorder): WUV. 09 2009 Patrica mclonnell 3 Ribarian toresT П or NAD83. Bearing, left axis at SWort (degrees) of Long / Short side GPS wvpt #: 5 Datum: 7046 006 UTMN 3 3 Zone: 10/(11)(circle one) Error: ± 3, 5 ft/m/pdop If No, cite from waypoint to stand, distance (meters) & bearing GPS within stand? Yes No П (it) m Camera Name/Photograph #'s: N1) picture taken 1. 1-5, >5 | Plot Size (m2): 10 / 100 / 400 (1000) Plot Shapel 5 x 75 ft /m or Circle Radius ft/m Stand Size (acres):(NE NW SE SW (Flat Variable /All | Steepness, Actual °: > 25° Exposure, Actual o: upper mid lower bottom | Micro: convex far concave undulating Topography: Macro: Upland or Wetland/Riparian (circle one) Geology code: N/A Soil Texture code: % Surface cover H20: O BA Stems: Z Litter: 75 Bedrock: Fines: **Boulder:** Stone: Cobble: Gravel: (Incl. outcrops) (>60cm diam) (7.5-25cm) (2mm-7.5cm) (Incl sand, mud) (25-60cm) Past bioturbation present? Y / N | % Hoof punch % Current year bioturbation П Site history, stand age, comments: History illow Serulo Type/ Level of disturbance codes: "Other" II. HABITAT AND VEGETATION DESCRIPTION Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), (T3)(6-11" dbh), T4 (11-24" dbh), T5 (>24" dbh), multi-layered (T3 or T4 layer under T5, >60% cover) Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead), S3 mature (1-25% dead), S4 decadent (>25% dead) Herbaceous: H1 (<12" plant ht.), H2 (>12" ht.) % Non-Vasc cover: Total % Vasc Veg cover: 810 37 Low-Medium Tree: % Cover -Overstory Tree Conifer/Hardwood: Shrub: 10 Herbaceous: 18 33 Height Class - Overstory Conifer/Hardwood: ____/OS Low-Medium Tree: ___ Shrub: 03 Herbaceous: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2-5m 05=5-10m 06=10-15m 07=15-20m 08=20-35m 09=35-50m 10=>50m Species, Stratum, and % cover. Stratum categories: T= Overstory tree, U= Understory Tree, S = Shrub, H= Herb, N= Non-vascular. % cover intervals for reference: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-75%, 75%. Strata Species % cover | C | Strata | Species % cover Salik gooding 5 m L 3 -luciali H Unusual species: III. INTERPRETATION OF STAND Palix associa Field-assessed vegetation alliance name: Field-assessed association name (optional):

Adjacent alliances: Schoenoplectus - Bucharis salicifolia - salix las slepis

Other identification or mapping information:

Explain:

Tree

Confidence in alliance identification: L M 'H

Phenology (E,P,L): Herb Shrub

Lane Calavera Open space

Confidence in alliance identification: L M H

Very late season, prior

Phenology (E.P.L): Herb 2 Shrub 4 Tree

CNPS and CDFG Combined Vegetation Rapid Assessment and Relevé Field Form Relevé or Rapid Assessment (Circle One) (Revised Sept 10, 2009) For Office Use: Final vegetation type Alliance Final database #: name: Association I. LOCATIONAL/ENVIRONMENTAL DESCRIPTION Name(s) of surveyors (circle recorder): Polygon/Stand #: Air photo: Date: NOV. 09 2001) 4 Chemise Charpathil Petrick McConnell GPS wypt #: 4 Datum: or NAD83. Bearing, left axis at SW pt____ (degrees) of <u>Long / Short</u> side 3 0 3 UTMN 3 6 7 0 4 7 5 Zone: 10/KD (circle one) Error: ±2.3 ft/m (pdop) GPS within stand? Yes / No If No, cite from waypoint to stand, distance (meters) & bearing П Elevation: \7 (ft) m Camera Name/Photograph #'s: None tomen Stand Size (acres): <1, 1-5, >5 | Plot Size (m²): 10 / 100 / 400 / 1000 | Plot Shape ___ x__ ft / m or Circle Radius ft / m Exposure, Actual o: 316 NE NW SE SW Flat Variable All | Steepness, Actual o: 5 0 (75) > 25° Topography: Macro: top upper mid lower bottom | Micro: convex flat concave undulating Upland or Wetland/Riparian (circle one) Soil Texture code: Geology code: % Surface cover Fines: 76 =100% H20: BA Stems: Litter: Bedrock: Gravel: (2mm-7.5cm) (Incl sand, mud) Past bioturbation present? Y /N | % Hoof punch % Current year bioturbation П Site history, stand age, comments: - ne Sear e vident Type/Level of disturbance codes: 19 /2 15 /2 2/1 29/1 17/1 "Other" 5/1 II. HABITAT AND VEGETATION DESCRIPTION Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" dbh), T4 (11-24" dbh), T5 (>24" dbh), T6 multi-layered (T3 or T4 layer under T5, >60% cover) Shrub: <u>S1</u> seedling (<3 yr. old), <u>S2</u> young (<1% dead), <u>S3</u> mature (1-25% dead), <u>S4</u> decadent (>25% dead) Herbaceous: H1 (<12" plant ht.), H2 (>12" ht.) % Non-Vasc cover: 19 Total % Vasc Veg cover: 39 Low-Medium Tree: Shrub: 29 Herbaceous: 19 % Cover -Overstory Tree Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Low-Medium Tree: Shrub: 03 Herbaceous: 01 $Height\ classes:\ 01=<1/2m\ \ 02=1/2-1m\ \ 03=1-2m\ \ 04=2-5m\ \ 05=5-10m\ \ 06=10-15m\ \ 07=15-20m\ \ 08=20-35m\ \ 09=35-50m\ \ 10=>50m$ Species, Stratum, and % cover. Stratum categories: T= Overstory tree, U= Understory Tree, S = Shrub, H= Herb, N= Non-vascular. % cover intervals for reference: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-75%, 75%. % cover | C | Strata | Species Strata Species % cover C 21 Li 1 91 2 H +1 3 L 6 H prophylluma Jeosoala PACCYI H mun Deinmora N Unusual species: III. INTERPRETATION OF STAND Field-assessed vegetation alliance name: Field-assessed association name (optional): Adjacent alliances:

Explain:

Other identification or mapping information:

to meaninated water Pains

CNPS and CDFG Combined Vegetation Rapid Assessment and Relevé Field Form
Relevé or Rapid Assessment (Circle One) (Revised Sept 10, 2009)

		u sept to, zu	09)	
For Office Use: Final database #: Final vege	tation typ	1		
I. LOCATIONAL/ENVIRONMENTAL DESCRIPT	TON	A.SSO	iation	
Polygon/Stand #: Air photo: Date:		ame(s) of s	urveyors (circle recorder):	
5 scrub oak expurred Nov. 102				
GPS wypt # GPS name: Datum:	or NAD8	3. Bearing	, left axis at SW pt (degrees) of Long	/ Short side
UTME 4 7 4 2 5 3 UTMN 3 6	70	299	Zone: 10 (1) (circle one) Error: ± 2.5	ft/m/pdop
GPS within stand Yes / No If No, cite from way	point to s	tand, dista	nce(meters) & bearing(degrees	3)
Elevation: 156 (ft/m Camera Name/Photogra	ph #'s: ʃ	JUNE +	ones	
Stand Size (acres): (1) 1-5, >5 Plot Size (m ²): 1				
Exposure, Actual o: 340 NE NW SE SW I				
Topography: Macro: top upper mid lower Geology code: Soil Texture code:				
% Surface cover				
	(>60cm	diam) (25-	50cm) (7.5-25cm) (2mm-7.5cm) (Incl sa	nd, mud)
% Current year bioturbation Past bioturb	tion pres	sent: Y / I	% Hoot punen	
Plot contains serub oak to		h	- 1 22 : 1	A. C.
This area Locate of with				
mostly worth facing hillsid	e. AL	visib	is disturbances.	
Type/ Level of disturbance codes:/		_/	/ 'Other"	
II. HABITAT AND VEGETATION DESCRIPTION				
Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" dbh),	T4 (11-2	4" dbh), T5	(>24" dbh), T6 multi-layered (T3 or T4 layer under	T5, >60% cover)
Shrub: <u>S1</u> seedling (<3 yr. old), <u>S2</u> young (<1% dead),			· · · · · · · · · · · · · · · · · · ·	
Herbaceous: <u>H1</u> (<12" plant ht.), <u>H2</u> (>12" ht.)	% 1	Non-Vasc	cover: Total % Vasc Veg c	over: 73
% Cover -Overstory Tree Conifer/Hardwood:				
Height Class - Overstory Conifer/Hardwood:				. 01
Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2				
Species, Stratum, and % cover. Stratum categories:	Γ= Overst	orv tree. U=	Understory Tree, S = Shrub, H= Herb, N= No	on-vascular.
% cover intervals for reference: <1%, 1-5%, >5-15%, >15-	25%, >25-	50%, >50-75	%, 75%.	
Strata Species	% cover	C Strata	Species	% cover C
S Quercus berberation	55	5	Rhus integrifolia	2
il Nassella legida	4.	Market	Classic (explichen)	1
5 Minulus aurentiacus		H	Potentilla sp.	< 1
H Muhlenbergia rigens	i	Н	Bromus malatersis	CI
5 Backburis pitularis	1	H	Deinanbrafaciculata	<1
5 Lonicera subspicuta	2	H	Muhlenbergia Microspern	
S Toxicodendron diversilubum		5	Erophyllum confertifion	um sl
5 Hazardia Squarrosa	1	H		NAM 21
5 Heteromeles arbutifolia	2	H	Graphalium californieu	
Unusual species:				
III. INTERPRETATION OF STAND				
Field-assessed vegetation alliance name:				
Field-assessed association name (optional):				
Adjacent alliances: Change Change	alr	Jorth	イエが	
Confidence in alliance identification: L M H	Explain:			
Phenology (E,P,E); Herb L Shrub L Tree	Other ide	entification	or mapping information:	
Very late-sevan, prior to 1st	- mee	nisful	write crains.	
0				

RELEVE SPECIES SHEET (Revised 9/10/09)

served our chapewal

Page 2 of Polygon/Stand # 625 brought 5: 3. McConnell

Callee Callee Callee Connell

Stratum categories: T = Overstory tree, U = Understory tree, S = Shrub, H = Herb, and N=Non-vascular

On Space % Cover Intervals for reference: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-75%, >75%

Strata	Vascular plant name or lichen/bryophyte	% Cover Collection	Final species determination
N	Clab ress	41	
Н	Valoin Ameros	41	
H	Vulpin Myuros Juncus Sp.	4, 1	
5	millatitemen minos	4	
2	Lucca schisigera	<1	
14	Carex triguetro	<1	
5	Carium angustisolium Lucca schisigera Carex triquetra Lotus sespanius Leymus condensatus Querus agrifolia	41	
H	Leynus condensatus	41	
3	Querus recifolia	21	
	3		
		1 1	
\rightarrow			

CNPS and CDFG Combined Vegetation Rapid Assessment and Relevé Field Form

Relevé or Rapid Assessment (Circle One)

(Revised Sent 10, 2009)

Refere by Rapid	Assessment (Circle	One) (Rev	ised se	pt 10, 20	09)		
For Office Use:	Final database #:	Final vegetation	type	Allia			
		name:		Asso	ciation		
	/ENVIRONMENTAI		NT	-(-) -6-	(4.1		
Polygon/Stand #:	Air photo:				urveyors (circle recorder):		
P Jonerow	micco grop.	Nov. 12,2009	10	itric	re Milannell		_
	- P				, left axis at pt (degrees) of Long/		- 1
					Zone: 10 (P)(circle one) Error: ± 3	ft/m/ed	1000
GPS within stand?	Yes / No If No, o	ite from waypoint t	o stano	d, dista	nce(meters) & bearing(degrees)		
The second secon	∰m Camera Na						
					Plot Shape 2 x mor Circle Radi Steepness, Actual 9: 18 0° 1-5° (5-		1
					o: convex flat concave undulating	23) - 2.	
					Upland or Wetland/Riparian (circle one)		
% Surface cover			ر ند				-
H20: BA Ster	ms: 3 Litter: 72	Bedrock: Bou	lder:≤_ m diam	Sto (25-	ne: Cobble: Gravel: Fines: (2mm-7.5cm) (Incl sand	=100 i, mud)	%
% Current year b	ioturbation	Past bioturbation p	resent	? Y / I	N % Hoof punch		
					ce Plat estimated before o	ains,	
theretore	Some herb	ECEDUX COL	npo	2067	ts are missing.		\dashv
Type/ Level of dist	urbance codes:	//					7
	D VEGETATION DE						
Tree DBH : <u>T1</u> (<1	" dbh), T2 (1-6" dbh),	<u>Γ3</u> (6-11" dbh), <u>T4</u> (1	1-24" dl	bh), <u>T5</u>	(>24" dbh), T6 multi-layered (T3 or T4 layer under T	'5, >60% cove	er)
Shrub: S1 seedling	g (<3 yr. old), <u>S2</u> young	g (<1% dead),(*\square\	ture (1-	-25% de:	nd), <u>S4</u> decadent (>25% dead)		
Herbaceous: H1)	<12" plant ht.), H2 (>1	2" ht.) 9	6 Non	-Vasc	cover: Total % Vasc Veg co	ver: 39	
					m Tree: Shrub: 39 Herbaceous:		_
					m Tree: Shrub: 🌣 Herbaceous:		
			_		10-15m 07=15-20m 08=20-35m 09=35-50m		
							— ₁
					Understory Tree, S = Shrub, H= Herb, N= Nor	ı-vascular.	
% cover intervais jo Strata Species	or reference: <1%, 1-5%				%, 75%. Species	% cover	С
				Strata	Species	70 COVET	
5 Mimuli	us aurenti	ocus 2					
H Dryopt	ieris argut	~ <1	V		, , , , , , , , , , , , , , , , , , ,		
S X4Toic	occus hicola	7					
Cama	rustaphylis	Siversifolia					
5 530.0.	versifolion	10)				
	tearifolia.	10					\Box
	unites erbut						\vdash
	. 2		-				H
Α.	ma lauring		+			-	H
Unusual species:		CUI (C) BUM					\dashv
III. INTERPRETA							\dashv
Field-assessed year	tation alliance name	Charlenitz	. Alan	ulic .	Rhars-Valoroccus		
Field-assessed asso	ciation name (optiona	d):	7	9	Rhus-Kylococcus		-
	Chamise		l +:	o 80	uth		_ [
	nce identification: L	4					
		_		fication	or mapping information:		- [
Dryopte	ris identif	ied at hor	~8 O	FFic	C complete man months.		-1'
							- 1

Carlshad Village Drive open space CNPS and CDFG Combined Vegetation Rapid Assessment and Relevé Field Form Relevé or Rapid Assessment (Circle One) (Revised Sept 10, 2009) Final vegetation type For Office Use: Final database #: Alliance name: Association I. LOCATIONAL/ENVIRONMENTAL DESCRIPTION Name(s) of surveyors (circle recorder): Polygon/Stand #: Air photo: Date: 2/12/10 Patrice Mconnell Dorine Law CUDSSSI or NAD83. Bearing, left axis at SW pt (degrees) of Long / Short side П GPS wvpt #: GPS name: Datum: UTME 47057 9 UTMN 36 7050 8 Zone: 10/11)(circle one) Error: ± 1 ft 00/pdop If No, cite from wavpoint to stand, distance (meters) & bearing (degrees) GPS within stand? Yes / No П Elevation: 100 M/m Camera Name/Photograph #'s: None Jane П Stand Size (acres): <1, 1-5, >5 | Plot Size (m²): 10 / 100 (400) / 1000 | Plot Shape 20 x 20 ft /m) or Circle Radius ft/m Exposure, Actual o: 2140 NE NW SE W Flat Variable /All | Steepness, Actual o: 220 П > 25° Topography: Macro: Gop upper mid lower bottom | Micro: convex that concave undulating Upland) or Wetland/Riparian (circle one) code: Soil Texture code: _ % Surface cover H20: BA Stems: Litter: 7 Bedrock: Fines: 72 = 100%Cobble: Boulder: Stone: Gravel: (7.5-25cm) (Incl. outcrops) (>60cm diam) (25-60cm) (2mm-7.5cm) (Incl sand, mud) Past bioturbation present? Y / N | % Hoof punch-% Current year bioturbation П Site history, stand age, comments: Site appears to have been a past Encelianatfi otherwise Type/ Level of disturbance codes: 05/ 4 II. HABITAT AND VEGETATION DESCRIPTION Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" dbh), T4 (11-24" dbh), T5 (>24" dbh), T6 multi-layered (T3 or T4 layer under T5, >60% cover) Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead), S3 mature (1-25% dead), S4 decadent (>25% dead) Herbaceous: (H1) (<12" plant ht.), H2 (>12" ht.) % Non-Vasc cover: Total % Vasc Veg cover: П Low-Medium Tree: Shrub: 32 Herbaceous: 2 % Cover -Overstory Tree Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: / Low-Medium Tree: Shrub: 02 Herbaceous: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2-5m 05=5-10m 06=10-15m 07=15-20m 08=20-35m 09=35-50m 10=>50m Species, Stratum, and % cover. Stratum categories: T= Overstory tree, U= Understory Tree, S = Shrub, H= Herb, N= Non-vascular. % cover intervals for reference: <1%, 1-5%, >5-15%, >15-25%, >25-50%, >50-75%, 75%. C Strata | Species Strata Species % cover % cover C Chamaesyce Encella Californica 28 21 2 mulitertis ì 1 charis pillaris 6 rabilis INEVIS < anbores. H Nassella Lepidu < 1 10 Brussica Urtica orrei

1	Orașulai species.	
	III. INTERPRETATION OF STAND	
	Field-assessed vegetation alliance name: £ rcclic california oputitie	
	Field-assessed association name (optional):	
	Adjacent alliances: Southern willow Scrub at bottom of hill toward.	
	Confidence in alliance identification: L M H Explain:	
	Phenology (L,P,L): Herb £ Shrub T Tree Other identification or mapping information:	
	Point taken & SEcontrof Plot at top of Will	
		7

CNPS and CDFG Combined Vegetation Rapid Assessment and Relevé Field Form
Relevé or Rapid Assessment (Circle One) (Revised Sept 10, 2009)

For Office Use:		ase #: Final ve	getation ty					
LIOCATIONAL	TENIX/IDONIA/	name:	DTION		Asso	ciation		
I. LOCATIONAL/ Polygon/Stand #:	Air ph			Vamo	e(s) of s	urveyors (circle recorder):		-
MCHAP		2/12/10		tog	ricu	- Melannetty Dorene Lew		
	GPS name:	Datum:	or NAD	83.	Bearin	g, left axis at SW pt (degrees) of Long /	Short side	
UTME 4 7 S	83	UTMN 3 6	67	9	1 1	Zone: 10 (1) (circle one) Error: ± 2	ft/m/pd	⊙ □
GPS within stand?	Yès / No	If No, cite from w	aypoint to	stan	d, dista	nce(meters) & bearing(degrees)		
Elevation:"-105	AT Cam	era Name/Photog	raph #'s:	N	one.	torren		
						Plot Shape 20x2 ft /m or Circle Radi		
						Steepness, Actual o: 200 0° 1-5° (5-	25° > 25	5° □
						o: convex flat concave undulating partial or Wetland/Riparian (circle one)		
% Surface cover	-						20	
		(Incl. outcro	ps) (>60cm	diam	1) (25-	ne: Cobble: Gravel: Fines: 60cm) (7.5-25cm) (2mm-7.5cm) (Incl sand)	<u>>δ</u> =100 l, mud)	% 🗆
						N % Hoof punch		_ 0
Site history, stand	age, comment	s: 615 4	renth		ME	Parrel model surubliking	は 73	MO
NO VISIDIE	2) JELACI	000116						\dashv
Type/ Level of dist				_/_		/ "Other"		
II. HABITAT ANI								\dashv
						(>24" dbh), <u>T6</u> multi-layered (T3 or T4 layer under T	5, >60% cove	er)
			The same of the sa			ad), <u>\$4</u> decadent (>25% dead) <u>cover: </u>	Zí	
						m Tree: Shrub: 3/9 Herbaceous:		_ _
						m Tree: Shrub: 94 Herbaceous:		
						10-15m 07=15-20m 08=20-35m 09=35-50m		
Species, Stratum, a	nd % cover.	Stratum categorie	s: T= Overs	tory	tree, U	= Understory Tree, S = Shrub, H= Herb, N= Nor		
% cover intervals fo	r reference: <1	%, 1-5%, >5-15%, >	15-25%, >25- % cover				% cover	
					12-fit sirtst	piere	70 COVE	
S Lyloca	ccus 5	color	10	\vdash			-	H
	integnif	scientato	8	+				\vdash
	mellis		3	+			+	\vdash
puter .		entincus	5				+	
		alifornich				2		
		trengular					T	
N Club	Luss)	<1					
								_
Unusual species:	TION OF CT	AND						
								- -
		- 1						- -
_								- -
Confidence in allia								- -
Phenology (E,P,L):	nero L. Sh	ruot 1ree	_ Other id	enti	псапоі	or mapping information:		

CNPS and CDFG Combined Vegetation Rapid Assessment and Relevé Field Form
Relevé or Rapid Assessment (Circle One) (Revised Sept 10, 2009)

	(Revised Se		
For Office Use: Final database #: Final vegeta	tion type	Association	
I. LOCATIONAL/ENVIRONMENTAL DESCRIPTION	ON	Association	
Polygon/Stand #: Air photo: Date:		e(s) of surveyors (circle recorder):	*
SO42_Grass 1 01/29/10	(P.N	ICLORNOLD DURENE LOW	
GPS wypt #: GPS name: Datum: o			hort side
UTME 4743 18 UTMN 36			
GPS within stand (Yes) No If No, cite from waype	oint to stand	d, distance(meters) & bearing(degrees)	
Elevation: 149 6 m Camera Name/Photograph	h#'s: N	tenlier	
Stand Size (acres): <1, (T-3) >5 Plot Size (m ²): 10		_ _	
Exposure, Actual o: 3-10 (SE NW SE SW Fla			
Topography: Macro: top upper mid lower Geology code: Soil Texture code:			
0/ Surviago gover			
H20: BA Stems: Litter: Bedrock: (Incl. outcrops)	Boulder:(>60cm diam	Stone: Cobble: Gravel: Fines: (2mm-7.5cm) (25-60cm) (7.5-25cm) (2mm-7.5cm) (Incl sand,	7 =100% [mud)
% Current year bioturbation Past bioturbat	ion present	Y / N % Hoof punch	
Site history, stand age, comments: Lots of	totil em	tring is vicinity	
Type/ Level of disturbance codes: 02/M 05/	1 20/M	29/11/_ "Other"	
II. HABITAT AND VEGETATION DESCRIPTION			
Tree DBH: <u>T1</u> (<1" dbh), <u>T2</u> (1-6" dbh), <u>T3</u> (6-11" dbh), <u>1</u>	<u>T4</u> (11-24" d	bh), $\underline{\textbf{T5}}$ (>24" dbh), $\underline{\textbf{T6}}$ multi-layered (T3 or T4 layer under T5,	,>60% cover)
Shrub: Siseedling (<3 yr. old), S2 young (<1% dead), S			
Herbaceous; H1 (>12" plant ht.), H2 (>12" ht.)	% Non	-Vasc cover: Total % Vasc Veg cover	er:56
% Cover -Overstory Tree Conifer/Hardwood:/	Low-		~,
% Cover -Overstory Tree Conifer/Hardwood: / <u>Height Class</u> - Overstory Conifer/Hardwood: /		-Medium Tree: Shrub: <\ \) Herbaceous: 5	<i>il</i> c
	Low	Medium Tree: Shrub: ≤1 Herbaceous: 5 -Medium Tree: Shrub: △2 Herbaceous: △	
Height Class - Overstory Conifer/Hardwood: / Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2-5 Species, Stratum, and % cover. Stratum categories: T=	Low 5m 05=5-10 = Overstory	Medium Tree: Shrub: ≤1 Herbaceous: 5 -Medium Tree: Shrub: ○1 Herbaceous: 5 m 06=10-15m 07=15-20m 08=20-35m 09=35-50m 10 10 10 10 tree, U= Understory Tree, S = Shrub, H= Herb, N= Non- 10 10 10 10	0=>50m
Height Class - Overstory Conifer/Hardwood: / Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2-5 Species, Stratum, and % cover. Stratum categories: T= % cover intervals for reference: <1%, 1-5%, >5-15%, >15-25	Low 5m 05=5-10 = Overstory 5%, >25-50%	Medium Tree: Shrub: <1 Herbaceous: 5 -Medium Tree: Shrub: ○1 Herbaceous: 5 m 06=10-15m 07=15-20m 08=20-35m 09=35-50m 10 tree, U= Understory Tree, S = Shrub, H= Herb, N= Non- >50-75%, 75%.	0=>50m vascular.
Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2-5 Species, Stratum, and % cover. Stratum categories: T= % cover intervals for reference: <1%, 1-5%, >5-15%, >15-25 Strata Species	Low 5m 05=5-10 = Overstory 5%, >25-50% % cover C	Medium Tree: Shrub: ≤ ↑ Herbaceous: ⊆ -Medium Tree: Shrub: □ ∤ Herbaceous: ⊆ m 06=10-15m 07=15-20m 08=20-35m 09=35-50m 10 tree, U= Understory Tree, S = Shrub, H= Herb, N= Non-x>50-75%, 75%. Strata Species	0=>50m
Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2-5 Species, Stratum, and % cover. Stratum categories: T= % cover intervals for reference: <1%, 1-5%, >5-15%, >15-25 Strata Species	Low 5m 05=5-10 = Overstory 5%, >25-50% % cover C	Shrub: Herbaceous: Herbaceous: Herbaceous: Herbaceous: Herbaceous: Herbaceous: March Herbaceous: Herbaceous: March March Herbaceous: March March March Herbaceous: March Mar	0=>50m vascular.
Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2-5 Species, Stratum, and % cover. Stratum categories: T= % cover intervals for reference: <1%, 1-5%, >5-15%, >15-25 Strata Species H. Frank bother fis glabba	Low 5m 05=5-10 = Overstory 5%, >25-50% % cover C	Shrub: Herbaceous: 5 -Medium Tree: Shrub: Herbaceous: 5 -Medium Tree: Shrub: Herbaceous: 6 -Medium Tree: Shrub: Herbaceous: 5 -Medium Tree: Shrub: Herbaceous: 6 -Medium Tree: Shrub: Herbaceous: 6 -Medium Tree: Shrub: 6 -Medium Tree:	0=>50m vascular.
Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2-5 Species, Stratum, and % cover. Stratum categories: T= % cover intervals for reference: <1%, 1-5%, >5-15%, >15-25 Strata Species H. H. J.	Low 5m 05=5-10 = Overstory 5%, >25-50% % cover C	Medium Tree: Shrub: -Medium Tree: Shrub: -Merbaceous: -Merbaceous: -Merbaceous: -Merbaceous: -Merba	0=>50m vascular.
Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2-5 Species, Stratum, and % cover. Stratum categories: T= % cover intervals for reference: <1%, 1-5%, >5-15%, >15-25 Strata Species H. Frank bother fis glabba	Low 5m 05=5-10 = Overstory 5%, >25-50% % cover C	Medium Tree: Shrub: Herbaceous: 5 -Medium Tree: Shrub: Herbaceous: 5 m 06=10-15m 07=15-20m 08=20-35m 09=35-50m 10 tree, U= Understory Tree, S = Shrub, H= Herb, N= Non- >50-75%, 75%. Strata Species Sisyman	0=>50m vascular.
Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2-5 Species, Stratum, and % cover. Stratum categories: T= % cover intervals for reference: <1%, 1-5%, >5-15%, >15-25 Strata Species H. H. J.	Low 5m 05=5-10 Overstory 5%, >25-50% % cover C C C C C C C C C	Medium Tree: Shrub: -Medium Tree: Shrub: -Merbaceous: -Merbaceous: -Merbaceous: -Merbaceous: -Merba	0=>50m vascular.
Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2-5 Species, Stratum, and % cover. Stratum categories: T= % cover intervals for reference: <1%, 1-5%, >5-15%, >15-25 Strata Species H. H. Disticulis Spicatum	Low 5m 05=5-10 = Overstory 5%, >25-50% % cover C	Medium Tree: Shrub: Herbaceous: Shrub: Herbaceous: Medium Tree: Med	0=>50m vascular.
Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2-5 Species, Stratum, and % cover. Stratum categories: T= % cover intervals for reference: <1%, 1-5%, >5-15%, >15-25 Strata Species H. H. J.	Low 5m 05=5-10 Overstory 5%, >25-50% % cover C C C C C C C C C	Medium Tree: Shrub: Herbaceous: Shrub: Herbaceous: Medium Tree: Med	0=>50m vascular.
Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2-5 Species, Stratum, and % cover. Stratum categories: T= % cover intervals for reference: <1%, 1-5%, >5-15%, >15-25 Strata Species H. Frank both stras H. John both stras H. John Market Spicatur H. Districtures Spicatures Spicatu	Low 5m 05=5-10 Overstory 5%, >25-50% % cover C C C C C C C C C	Medium Tree: Shrub: Herbaceous: Shrub: Herbaceous: Medium Tree: Med	0=>50m vascular.
Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2-5 Species, Stratum, and % cover. Stratum categories: T= % cover intervals for reference: <1%, 1-5%, >5-15%, >15-25 Strata Species H. F.O. M. Botrys H. Johnson Botrys H. Distinctus Spinstum H. Distinctus Spinstum H. Vulpin myuros H. Someway and Atensis H. Arena Sp. H. Arena Sp. H. Cuntum peur melitensis	Low 5m 05=5-10 Overstory 5%, >25-50% % cover C C C C C C C C C	Medium Tree: Shrub: Herbaceous: Shrub: Herbaceous: Medium Tree: Med	0=>50m vascular.
Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2-5 Species, Stratum, and % cover. Stratum categories: T= % cover intervals for reference: <1%, 1-5%, >5-15%, >15-25 Strata Species H. Frank both S. Grabert H. Distriction of the cover	Low 5m 05=5-10 Overstory 5%, >25-50% % cover C C C C C C C C C	Medium Tree: Shrub: Herbaceous: Shrub: Herbaceous: Medium Tree: Med	0=>50m vascular.
Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2-5 Species, Stratum, and % cover. Stratum categories: T= % cover intervals for reference: <1%, 1-5%, >5-15%, >15-25 Strata Species H. Frank both a first grant both a b	Low 5m 05=5-10 Overstory 5%, >25-50% % cover C C C C C C C C C	Medium Tree: Shrub: Herbaceous: Shrub: Herbaceous: Medium Tree: Med	0=>50m vascular.
Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2-5 Species, Stratum, and % cover. Stratum categories: T= % cover intervals for reference: <1%, 1-5%, >5-15%, >15-25 Strata Species H. Frank Both Species H. John Both Species H. John Both Species H. John Species H.	Low 5m 05=5-10 Overstory 5%, >25-50% % cover C C C C C C C C C	Medium Tree: Shrub: Herbaceous: Shrub: Herbaceous: Medium Tree: Med	0=>50m vascular. % cover C
Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2-5 Species, Stratum, and % cover. Stratum categories: T= % cover intervals for reference: <1%, 1-5%, >5-15%, >15-25 Strata Species H. Frank both a first grant both a b	Low 5m 05=5-10 = Overstory 5%, >25-50% % cover C	Medium Tree: Shrub: Herbaceous: 5 -Medium Tree: Shrub: Herbaceous: 5 m 06=10-15m 07=15-20m 08=20-35m 09=35-50m 10 tree, U= Understory Tree, S = Shrub, H= Herb, N= Non- >50-75%, 75%. Strata Species Dancus pusillus Dancus pusillus Lotus Suganus	0=>50m vascular.
Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2-5 Species, Stratum, and % cover. Stratum categories: T= % cover intervals for reference: <1%, 1-5%, >5-15%, >15-25 Strata Species H. F. L.	Low 5m 05=5-10 = Overstory 5%, >25-50% % cover C	Medium Tree: Shrub: Herbaceous: 5 -Medium Tree: Shrub: Herbaceous: 5 m 06=10-15m 07=15-20m 08=20-35m 09=35-50m 10 tree, U= Understory Tree, S = Shrub, H= Herb, N= Non- >50-75%, 75%. Strata Species Dancus pusillus Dancus pusillus Lotus Suganus	C
Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2-5 Species, Stratum, and % cover. Stratum categories: T= % cover intervals for reference: <1%, 1-5%, >5-15%, >15-25 Strata Species H. F. J.	Low 5m 05=5-10	Medium Tree: Shrub: Herbaceous: 5 -Medium Tree: Shrub: Herbaceous: 5 m 06=10-15m 07=15-20m 08=20-35m 09=35-50m 10 tree, U= Understory Tree, S = Shrub, H= Herb, N= Non- >50-75%, 75%. Strata Species Dancus pusillus Dancus pusillus Lotus Suganus	0=>50m vascular.
Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=2-5 Species, Stratum, and % cover. Stratum categories: T= % cover intervals for reference: <1%, 1-5%, >5-15%, >15-25 Strata Species H. F. J.	Low 5m 05=5-10	Medium Tree: Shrub: Herbaceous: 5 -Medium Tree: Shrub: Herbaceous: 5 m 06=10-15m 07=15-20m 08=20-35m 09=35-50m 10 tree, U= Understory Tree, S = Shrub, H= Herb, N= Non- >50-75%, 75%. Strata Species N Sisyciachium bellum Nursella legida Demand position S Lotus scaperium	0=>50m vascular. % cover C

	(Revi				
For Office Use: Final database #: Final ve	getation ty				-
I. LOCATIONAL/ENVIRONMENTAL DESCRI	PTION	Asse	ociation		\dashv
Polygon/Stand #: Air photo: Date:		Name(s) of	surveyors (circle recorder):		-
5=42-6 ross 2 01/2911					
			7 7 7 7 7 1		
GPS wypt #: GPS name: Datum:					
UTME 47 4 150 UTMN 36			700 TO 100 TO 10		p [
GPS within stand? (19) / No If No, cite from wa	aypoint to	stand, dist	ance(meters) & bearing(degree	es) 	
Elevation: 106 (t) /m Camera Name/Photog	-				_ [
Stand Size (acres): <1, 1-5, >5 Plot Size (m ²):	The state of the s				
Exposure, Actual °: NE NW SE SW					
Topography: Macro: top upper mid lower Geology code: Soil Texture code:					
% Surface cover					-
H20: BA Stems: Litter: Bedrock:	Bould	der:St	one: Cobble: Gravel: Fine: (2mm-7.5cm) (Incl.)	s: 25 =100°	6 C
% Current year bioturbation Past biotur	rbation pr	resent? Y /	N % Hoof punch	and, mud)	
Site history, stand age, comments: Disturb	اول م	otive .	grassland. Surrandings v	u/criss-c	rosé
The state of the s	41. 0	100 0	0 (1) (00)		-
Type/ Level of disturbance codes: 02/M 05	114 2	2/811	"Other"		
II. HABITAT AND VEGETATION DESCRIPTION	ON				
II. HABITAT AND VEGETATION DESCRIPTION Tree DRH: T1 (<1" dbh) T2 (1-6" dbh) T3 (6-11" db		-24" dbh) T	5 (>24" dbh) T6 multi-lavered (T3 or T4 laver and	er T5 >60% cove	
Tree DBH: <u>T1</u> (<1" dbh), <u>T2</u> (1-6" dbh), <u>T3</u> (6-11" db	oh), T4 (11-			ler T5, >60% cover	-
Tree DBH: <u>T1</u> (<1" dbh), <u>T2</u> (1-6" dbh), <u>T3</u> (6-11" db Shrub: <u>S1</u> seedling (<3 yr. old), <u>S2</u> young (<1% dead)	oh), <u>T4</u> (11-), <u>S3</u> mat	ure (1-25% d	ead), S4 decadent (>25% dead)		
Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" db Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead) Herbaceous: H1 (<12" plant ht.), H2 (>12" ht.)	oh), T4 (11-), S3 mate	ure (1-25% d	ead), S4 decadent (>25% dead) cover: 4 Total % Vasc Veg	cover: 78	
Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" db Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead) Herbaceous: H1 (<12" plant ht.), H2 (>12" ht.) 4 Cover -Overstory Tree Conifer/Hardwood:	oh), T4 (11-), S3 matt	Non-Vase Low-Medi	cover: 4 Total % Vasc Veg um Tree: Shrub: 4 Herbaceou	cover: 7 8	
Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" db Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead) Herbaceous: H1 (<12" plant ht.), H2 (>12" ht.) **Cover -Overstory Tree Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood:	oh), T4 (11-), S3 mate	ure (1-25% do Non-Vaso Low-Medi Low-Medi	cover: 4 Total % Vasc Veg um Tree: Shrub: 4 Herbaceou um Tree: Shrub: 7 Herbaceou	cover: 7 8 is: 78 is: 61	_ -
Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" db Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead) Herbaceous: H1 (<12" plant ht.), H2 (>12" ht.) 4 Cover -Overstory Tree Conifer/Hardwood:	oh), T4 (11-), S3 mate	ure (1-25% do Non-Vaso Low-Medi Low-Medi	cover: 4 Total % Vasc Veg um Tree: Shrub: 4 Herbaceou um Tree: Shrub: 7 Herbaceou	cover: 7 8 is: 78 is: 61	_ -
Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" db Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead) Herbaceous: H1 (<12" plant ht.), H2 (>12" ht.) **Cover -Overstory Tree Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04 Species, Stratum, and % cover. Stratum categories	oh), T4 (11.), S3 math / =2-5m 05: S: T= Over	Low-Medi Low-Medi =5-10m 06- story tree, U	cover: 4	cover: 7 8 is: 78 is: 31 m 10=>50m	_ -
Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" db Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead) Herbaceous: H1 (<12" plant ht.), H2 (>12" ht.) % Cover -Overstory Tree Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=	bh), T4 (11-), S3 math 	Low-Medi Low-Medi =5-10m 06- story tree, U	Sadde Sadd	cover: 7 8 is: 78 is: 31 m 10=>50m	_ -
Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" db Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead) Herbaceous: H1 (<12" plant ht.), H2 (>12" ht.) **Cover -Overstory Tree Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=1/2 **Species, Stratum, and % cover. Stratum categories % cover intervals for reference: <1%, 1-5%, >5-15%, >15 (Stratal Species)	bh), T4 (11- b), S3 math 	Low-Medi E-10m 06- Story tree, U 5-50%, >50-7	cover: 4 Total % Vasc Veg um Tree: Shrub: 4 Herbaceou um Tree: Shrub: 7 Herbaceou =10-15m 07=15-20m 08=20-35m 09=35-50n = Understory Tree, S = Shrub, H= Herb, N= 15%, 75%. Species	cover: 7 8 s: 78 s: 61 n 10=>50m Non-vascular. % cover	_ 0
Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" db Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead) Herbaceous: H1 (<12" plant ht.), H2 (>12" ht.) % Cover -Overstory Tree Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04: Species, Stratum, and % cover. Stratum categories % cover intervals for reference: <1%, 1-5%, >5-15%, >1 Strata Species	bh), T4 (11-), S3 math 	Low-Medi =5-10m 06- story tree, U 5-50%, >50-7	cover: 4 Total % Vasc Veg mm Tree: Shrub: 4 Herbaceou mm Tree: Shrub: 9 Herbaceou mm Tree: Shrub: 9 Herbaceou mm Tree: Shrub: 9 Herbaceou mm Tree: Shrub: Herbaceou mm Tree: Merbaceou mm Tree: Shrub: Herbaceou mm Tree: Shrub: Herbaceou mm Tree: Merbaceou mm Tree: Me	cover: 7 8 is: 78 is: 01 m 10=>50m Non-vascular.	_ 0
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Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" db Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead) Herbaceous: H1 (<12" plant ht.), H2 (>12" ht.) **Cover - Overstory Tree Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04=1/2 dead) Species, Stratum, and **Cover. Stratum categories **Cover intervals for reference: <1%, 1-5%, >5-15%, >15 dead) Species **Height Class - Overstory Conifer/Hardwood: Dead of the stratum categories **Cover intervals for reference: <1%, 1-5%, >5-15%, >15 dead) **Height Class - Overstory Conifer/Hardwood: Dead of the stratum categories **Cover intervals for reference: <1%, 1-5%, >5-15%, >15 dead) **Height Class - Overstory Conifer/Hardwood: Dead of the stratum categories **Cover intervals for reference: <1%, 1-5%, >5-15%, >15 dead) **Height Class - Overstory Conifer/Hardwood: Dead of the stratum categories **Cover intervals for reference: <1%, 1-5%, >5-15%, >15 dead) **Height Class - Overstory Conifer/Hardwood: Dead of the stratum categories **Cover intervals for reference: <1%, 1-5%, >5-15%, >15 dead) **Height Class - Overstory Conifer/Hardwood: Dead of the stratum categories **Cover intervals for reference: <1%, 1-5%, >5-15%, >15 dead)	bh), T4 (11- b), S3 math 	Low-Medi Low-Medi =5-10m 06- story tree, U 5-50%, >50-7	Sad), S4 decadent (>25% dead) cover: 4 Total % Vasc Veg um Tree: Shrub: 4 Herbaceou um Tree: Shrub: 9 Herbaceou =10-15m 07=15-20m 08=20-35m 09=35-50i = Understory Tree, S = Shrub, H= Herb, N=15%, 75%. Species	cover: 7 8 18: 78 18: 01 10=>50m Non-vascular. % cover	_ 0
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Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" db Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead) Herbaceous: H1 (<12" plant ht.), H2 (>12" ht.) % Cover -Overstory Tree Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04 Species, Stratum, and % cover. Stratum categories % cover intervals for reference: <1%, 1-5%, >5-15%, >1 Strata Species H Erodium bottys H Sisyrinchitem bellum Variant Species H Distichlis spiceta	bh), T4 (11- b), S3 math 	Low-Medi Low-Medi =5-10m 06- story tree, U 5-50%, >50-7	Sad), S4 decadent (>25% dead) cover: 4 Total % Vasc Veg um Tree: Shrub: 4 Herbaceou um Tree: Shrub: 9 Herbaceou =10-15m 07=15-20m 08=20-35m 09=35-50i = Understory Tree, S = Shrub, H= Herb, N=15%, 75%. Species	cover: 7 8 18: 78 18: 01 10=>50m Non-vascular. % cover	_ 0
Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" db Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead) Herbaceous: H1 (<12" plant ht.), H2 (>12" ht.) **Cover - Overstory Tree Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04: Species, Stratum, and % cover. Stratum categories **Cover intervals for reference: <1%, 1-5%, >5-15%, >1 Strata Species H Erden both Signal Sellum **The Converse of the Stratum of the Species of the Stratum of the Species	bh), T4 (11- b), S3 math 	Low-Medi Low-Medi =5-10m 06- story tree, U 5-50%, >50-7	Sad), S4 decadent (>25% dead) cover: 4 Total % Vasc Veg um Tree: Shrub: 4 Herbaceou um Tree: Shrub: 9 Herbaceou =10-15m 07=15-20m 08=20-35m 09=35-50i = Understory Tree, S = Shrub, H= Herb, N=15%, 75%. Species	cover: 7 8 18: 78 18: 01 10=>50m Non-vascular. % cover	_ 0
Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" db Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead) Herbaceous: H1 (<12" plant ht.), H2 (>12" ht.) % Cover -Overstory Tree Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04 Species, Stratum, and % cover. Stratum categories % cover intervals for reference: <1%, 1-5%, >5-15%, >1 Strata Species H Erodium bottys H Sisyrinchitem bellum Variant Species H Distichlis spiceta	bh), T4 (11- b), S3 math 	Low-Medi Low-Medi =5-10m 06- story tree, U 5-50%, >50-7	Sad), S4 decadent (>25% dead) cover: 4 Total % Vasc Veg um Tree: Shrub: 4 Herbaceou um Tree: Shrub: 9 Herbaceou =10-15m 07=15-20m 08=20-35m 09=35-50i = Understory Tree, S = Shrub, H= Herb, N=15%, 75%. Species	cover: 7 8 18: 78 18: 01 10=>50m Non-vascular. % cover	_ 0
Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" db Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead) Herbaceous: H1 (<12" plant ht.), H2 (>12" ht.) **Secover - Overstory Tree Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04: Species, Stratum, and % cover. Stratum categories % cover intervals for reference: <1%, 1-5%, >5-15%, >1 Strata Species H Erodium bottys H Sisyrinchitam bellum H Jyromaeris glabra H Distichlis spicuta H Niselia pulmas	bh), T4 (11-), S3 math <u>%</u> =2-5m 05- S: T= Over 15-25%, >2: % cove 12	Low-Medi Low-Medi =5-10m 06- story tree, U 5-50%, >50-7	Sad), S4 decadent (>25% dead) cover: 4 Total % Vasc Veg um Tree: Shrub: 4 Herbaceou um Tree: Shrub: 9 Herbaceou =10-15m 07=15-20m 08=20-35m 09=35-50i = Understory Tree, S = Shrub, H= Herb, N=15%, 75%. Species	cover: 7 8 18: 78 18: 01 10=>50m Non-vascular. % cover	_ 0
Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" db Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead) Herbaceous: H1 (<12" plant ht.), H2 (>12" ht.) **Cover - Overstory Tree Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04 **Species, Stratum, and % cover. Stratum categories % cover intervals for reference: <1%, 1-5%, >5-15%, >1 Strata Species H Erodium botas H Sisyciachis m bellum H Distichlis spicata H Nosella pulcha H Nosella pulcha H Nosella pulcha H Distichlis spicata	bh), T4 (11-), S3 math 	Low-Medi Low-Medi =5-10m 06- story tree, U 5-50%, >50-7	Sad), S4 decadent (>25% dead) cover: 4 Total % Vasc Veg um Tree: Shrub: 4 Herbaceou um Tree: Shrub: 9 Herbaceou =10-15m 07=15-20m 08=20-35m 09=35-50i = Understory Tree, S = Shrub, H= Herb, N=15%, 75%. Species	cover: 7 8 18: 78 18: 01 10=>50m Non-vascular. % cover	_ 0
Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" db Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead) Herbaceous: H1 (<12" plant ht.), H2 (>12" ht.) % Cover -Overstory Tree Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04 Species, Stratum, and % cover. Stratum categories % cover intervals for reference: <1%, 1-5%, >5-15%, >15 Strata Species H Erding bottom H John Spirota H Aypochaeris glabra H Distichlis spirota H Distichlis spirota Unusual species:	bh), T4 (11-), S3 math 	Low-Medi Low-Medi =5-10m 06- story tree, U 5-50%, >50-7	Sad), S4 decadent (>25% dead) cover: 4 Total % Vasc Veg um Tree: Shrub: 4 Herbaceou um Tree: Shrub: 9 Herbaceou =10-15m 07=15-20m 08=20-35m 09=35-50i = Understory Tree, S = Shrub, H= Herb, N=15%, 75%. Species	cover: 7 8 18: 78 18: 01 10=>50m Non-vascular. % cover	_ 0
Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" db Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead) Herbaceous: H1 (<12" plant ht.), H2 (>12" ht.) **Cover - Overstory Tree Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04 **Species, Stratum, and % cover. Stratum categories % cover intervals for reference: <1%, 1-5%, >5-15%, >1 Strata Species H Erodium botas H Sisyciachis m bellum H Distichlis spicata H Nosella pulcha H Nosella pulcha H Nosella pulcha H Distichlis spicata	bh), T4 (11-), S3 math 	Low-Medi Low-Medi =5-10m 06- story tree, U 5-50%, >50-7	Sad), S4 decadent (>25% dead) cover: 4 Total % Vasc Veg um Tree: Shrub: 4 Herbaceou um Tree: Shrub: 9 Herbaceou =10-15m 07=15-20m 08=20-35m 09=35-50i = Understory Tree, S = Shrub, H= Herb, N=15%, 75%. Species	cover: 7 8 18: 78 18: 01 10=>50m Non-vascular. % cover	_ 0
Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" db Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead) Herbaceous: H1 (<12" plant ht.), H2 (>12" ht.) % Cover -Overstory Tree Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04 Species, Stratum, and % cover. Stratum categories % cover intervals for reference: <1%, 1-5%, >5-15%, >1 Strata Species H Erddum botus H John botus	oh), T4 (11), S3 math	Low-Medi =5-10m 06- story tree, U 5-50%, >50-7 er C Strata	sad), S4 decadent (>25% dead) cover: 4	cover: 7 8 18: 78 18: 01 10=>50m Non-vascular. % cover	_ 0
Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" db Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead) Herbaceous: H1 (<12" plant ht.), H2 (>12" ht.) % Cover -Overstory Tree Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04 Species, Stratum, and % cover. Stratum categories % cover intervals for reference: <1%, 1-5%, >5-15%, >1 Strata Species H Erodum botas H Jistichas spicular H Naselin pulchas H Naselin pulchas H Naselin pulchas Unusual species: HI. INTERPRETATION OF STAND	oh), T4 (11), S3 math	Low-Medi Low-Medi =5-10m 06- story tree, U 5-50%, >50-7 er C Strata	sad), S4 decadent (>25% dead) cover: 4	cover: 7 8 18: 78 18: 01 10=>50m Non-vascular. % cover	C
Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" db Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead) Herbaceous: H1 (<12" plant ht.), H2 (>12" ht.) % Cover -Overstory Tree Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04 Species, Stratum, and % cover. Stratum categories % cover intervals for reference: <1%, 1-5%, >5-15%, >1 Strata Species H Erddum botus H John botus	bh), T4 (11-), S3 math	Low-Medi =5-10m 06- story tree, U 5-50%, >50-7 er C Strata	sad), S4 decadent (>25% dead) cover: 4 Total % Vasc Veg um Tree: Shrub: 4 Herbaceou um Tree: Shrub: 61 Herbaceou =10-15m 07=15-20m 08=20-35m 09=35-50n = Understory Tree, S = Shrub, H= Herb, N= 15%, 75%. Species Luginus bicolo Denacus pasitis Johann parish. Junus 16.	cover: 7 8 18: 78 18: 01 10=>50m Non-vascular. % cover	C
Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" db Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead) Herbaceous: H1 (<12" plant ht.), H2 (>12" ht.) **Cover - Overstory Tree Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04* Species, Stratum, and % cover. Stratum categories % cover intervals for reference: <1%, 1-5%, >5-15%, >1 Strata Species H Erodium botas H Jistichas spicata H Distichas spicata H Distichas spicata H Distichas spicata Unusual species: HI. INTERPRETATION OF STAND Field-assessed vegetation alliance name: Field-assessed association name (optional):	oh), T4 (11-), S3 math <u>%</u> /	Low-Medi =5-10m 06- story tree, U 5-50%, >50-7 er C Strata	sad), S4 decadent (>25% dead) cover: 4 Total % Vasc Veg um Tree: Shrub: 4 Herbaceou um Tree: Shrub: 61 Herbaceou =10-15m 07=15-20m 08=20-35m 09=35-50n = Understory Tree, S = Shrub, H= Herb, N= 15%, 75%. Species Luginus bicolo Denacus pasitis Johann parish. Junus 16.	cover: 7 8 18: 78 19: 01 10=>50m Non-vascular. % cover	C
Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" db Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead) Herbaceous: H1 (<12" plant ht.), H2 (>12" ht.) % Cover -Overstory Tree Conifer/Hardwood: Height Class - Overstory Conifer/Hardwood: Height classes: 01=<1/2m 02=1/2-1m 03=1-2m 04= Species, Stratum, and % cover. Stratum categories % cover intervals for reference: <1%, 1-5%, >5-15%, >1 Strata Species H E Doding bottom H John Species H E Doding bottom H John Species H E Doding bottom H John Species H E Doding bottom H John Species H INTERPRETATION OF STAND Field-assessed vegetation alliance name: Field-assessed association name (optional): Adjacent alliances:	bh), T4 (11-), S3 math <u>%</u> /	Low-Medi Low-Medi =5-10m 06- story tree, U 5-50%, >50-7 er C Strata	ad), S4 decadent (>25% dead) cover: 4 Total % Vasc Veg um Tree: Shrub: 4 Herbaceou um Tree: Shrub: 6 Herbaceou =10-15m 07=15-20m 08=20-35m 09=35-50 = Understory Tree, S = Shrub, H= Herb, N= 15%, 75%. Species Luginus bicolo Denatus parishin Junus 16.	cover: 7 8 18: 78 19: 01 10=>50m Non-vascular. % cover	C

Appendix 4.

Species Richness within Coastal Sage Scrub Monitoring Plots

Species Richness within CSS Plots

Species Richness within CSS Plots	GGG 1 · ID	110	150	20	22.0	460	60		
	CSS plot ID:	11C	15C	2C	33C	46C	6C	Number	Proportion
	Aspect:	north	north	north	north	south	south	of	of 18
F4- 61								subplots	subplots
Exotic forbs						-		1.0	0.67
Anagalis arvensis		3	3	3	2	1		12	0.67
Brassica nigra			2	1	1			4	0.22
Carduus pycnocephalus			2		1			3	0.17
Centaurea melitensis			1	1				2	0.11
Cerastium glomeratum		3	2		3			8	0.44
Erodium cicutarium		1	1		1			3	0.17
Filago gallica		2	2	1	1		1	7	0.39
Galium aparine			3		2			5	0.28
Hypochaeris glabra		2		1			1	4	0.22
Lactuca serriola			1					1	0.06
Picris echioides		1						1	0.06
Silene gallica		1						1	0.06
Solanum sp.		1	1					2	0.11
Sonchus asper		1	3					4	0.22
Sonchus oleraceus			2	2	2			6	0.33
Stellaria media					1			1	0.06
Stellaria pallida					1			1	0.06
Exotic grass									
Bromus hordeaceus		1	1					2	0.11
Bromus madritensis ssp. rubens		3	3	3	3		1	13	0.72
Gastridium ventricosum		3	2					5	0.28
Polypogon monspeliensis			1					1	0.06
Vulpia bromoides		2	1		2			5	0.28
Vulpia myuros var. myuros		1	2	1	3			7	0.39
Native forbs									
Ancistrocarphus filagineus			1		1			2	0.11
Antirrhinum kellogii						1	1	2	0.11
Antirrhinum nuttallianum		2	1			1	1	5	0.28
Aphanes occidentalis		2						2	0.11
Apiastrum angustifolium				3				3	0.17
Calystegia macrostegia			1				1	2	0.11
Camissonia bistorta							1	1	0.06
camissonia sp.							1	1	0.06
Cardamine sp.					1			1	0.06
Cardionema ramosissima							2	2	0.11
Carex triquetra						1		1	0.06
Chlorogalum parviflorum				3				3	0.17
Claytonia sp.		1	2		3			6	0.33
Conyza sp.		_	2	1	1		1	5	0.28
Crassula connata		1	1	2	1		1	6	0.33

CSS plot ID:	11C	15C	2C	33C	46C	6C	Number	Proportion
Aspect:	north	north	north	north	south	south	of	of 18
							subplots	subplots
Cryptantha intermedia					1	1	2	0.11
Cryptantha micromeris				1		1	2	0.11
Cryptantha sp.						1	1	0.06
Cuscuta sp.					1		1	0.06
Daucus pusillus	2	1	2	2		1	8	0.44
Deinandra fasciculata	1	1	2				4	0.22
Dichelostemma capitatum ssp. capitatum			3			1	4	0.22
Dichondra occidentalis			1				1	0.06
Eucrypta chrysanthemifolia				3			3	0.17
Eucrypta chrysanthemifolia var. chrysanthemifolia						1	1	0.06
Galium angustifolium	1						1	0.06
Gnaphalium californicum	3	2		3	2		10	0.56
Gnaphalium palustre						1	1	0.06
Gnaphalium sp.			1				1	0.06
Gnaphalium stramineum	2	2	1	2	3	1	11	0.61
Linaria canadensis	1		1	1		2	5	0.28
Lotus hamatus		1					1	0.06
Mimulus aurantiacus	1						1	0.06
Navarretia hamata			1				1	0.06
Parietaria hespera	1			2		1	4	0.22
Pentagramma triangularis	1						1	0.06
Polycarpon depressum					1		1	0.06
Pseudognaphalium biolettii			1				1	0.06
Pterostegia drymarioides	3	2	2	3	2	2	14	0.78
Ranunculus hebecarpus				2			2	0.11
Sanicula sp.	1						1	0.06
Scrophularia californica				2			2	0.11
Selaginella cinerascens	1						1	0.06
Silene laciniata ssp. laciniata			1				1	0.06
Stachys ajugoides var. rigida		1					1	0.06
Stephanomeria sp.		1				1	2	0.11
Stylocline gnaphaloides						1	1	0.06
Trifolium microcephalum				1			1	0.06
Native grass								
Leymus condensatus		1					1	0.06
Melica imperfecta	2	1	1			1	5	0.28
Nassella lepida	2	2	3	1		2	10	0.56
Nassella pulchra	1						1	0.06
Vulpia microstachys				1			1	0.06
Vulpia octoflora var. Octoflora			1		1	1	3	0.17
Non vascular								
Asterella sp.	1			2			3	0.17

CSS plot ID:	11C	15C	2C	33C	46C	6C	Number	Proportion	
Aspect:	north	north	north	north	south	south	of	of 18	
							subplots	subplots	
Cladonia sp.	2	1					3	0.17	
Unknown moss	3	2		2	1		8	0.44	
Native Shrubs									
Artemisia californica	1	2		1	1	2	7	0.39	
Baccharis pilularis		1	1		1		3	0.17	
Croton californicus				1			1	0.06	
Cryptantha micromeris				1			1	0.06	
Cylindropuntia prolifera						1	1	0.06	
Dudleya pulverulenta						1	1	0.06	
Encelia californica						2	2	0.11	
Eriogonum fasciculatum var. fasciculatum			2		1	3	6	0.33	
Eriophyllum confertiflorum var. confertiflorum			3			2	5	0.28	
Galium angustifolium	1	1	2	1		1	6	0.33	
Hazardia squarrosa var. squarrosa				2		1	3	0.17	
Heteromeles arbutifolia	1		1				2	0.11	
Lotus scoparius			2	2	1	2	7	0.39	
Malacothamnus fasciculatus				1			1	0.06	
Malosma laurina		1	1	3	1		6	0.33	
Marah macrocarpus var. macrocarpus	1		1	3	3	1	9	0.50	
Mimulus aurantiacus	2		2	3	2	1	10	0.56	
Mirabilis laevis				1	1	1	3	0.17	
Opuntia littoralis						2	2	0.11	
Rhus integrifolia	1	2	1			1	5	0.28	
Salvia mellifera			2	2	3	3	10	0.56	
Yucca schidigera						1	1	0.06	